

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

MARCH 1, 1949



Exochorda Racemosa

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SEEDS

TREE—SHRUB—PERENNIAL  
FLOWER—VEGETABLE

HERBST BROTHERS  
92 Warren St., New York 7, N. Y.

Correspondence with seed collectors and growers invited.

Free catalog "Seeds for Nurserymen."

# ORNAMENTAL SHRUBS

Our Shrubs are well grown, bushy stock with plenty of canes, grown in wide rows to insure specimen plants suitable for your critical retail and landscape trade. Now available for immediate or later shipment as desired. Consult our Spring Wholesale Trade List in which we offer a large assortment. Additional copies available upon request.

<i>Acanthopanax Sieboldianus</i>	Per 100	<i>Cornus Alba Sibirica</i>	Per 100	<i>Lilac, Common Purple</i>	Per 100	<i>Spiraea Prunifolia</i>	Per 100
12 to 18 ins.....	\$16.00	18 to 24 ins.....	\$22.00	12 to 18 ins.....	\$18.00	12 to 18 ins.....	\$25.00
18 to 24 ins.....	22.00	2 to 3 ft.....	30.00	18 to 24 ins.....	25.00	18 to 24 ins.....	35.00
2 to 3 ft.....	30.00	3 to 4 ft.....	40.00	2 to 3 ft.....	30.00	2 to 3 ft.....	45.00
3 to 4 ft.....	55.00	4 to 5 ft.....	50.00	3 to 4 ft.....	45.00		
<i>Almond, Pink-flowering</i>		<i>Cornus, Golden Twig</i>		<i>Lilac, Common White</i>		<i>Spiraea Thunbergii</i>	
12 to 18 ins.....	25.00	18 to 24 ins.....	22.00	12 to 18 ins.....	22.00	12 to 18 ins.....	18.00
18 to 24 ins.....	35.00	2 to 3 ft.....	30.00	18 to 24 ins.....	35.00	18 to 24 ins.....	22.00
2 to 3 ft.....	45.00	3 to 4 ft.....	45.00			2 to 2 1/2 ft.....	27.00
3 to 4 ft.....	55.00			<i>Lilac (Chinese), Rothomagensis</i>		<i>Spiraea Vanhouttei</i>	
<i>Althea, Anemoneaeflora, Ardens, Boule de Feu, Double Purple, Jeanne d'Arc, Lucy, Rubis</i>		<i>Cornus Racemosa</i>		18 to 24 ins.....	30.00	12 to 18 ins.....	10.00
18 to 24 ins.....	20.00	18 to 24 ins.....	25.00	2 to 3 ft.....	40.00	18 to 24 ins.....	14.00
2 to 3 ft.....	28.00	2 to 3 ft.....	30.00	3 to 4 ft.....	50.00	2 to 3 ft.....	20.00
3 to 4 ft.....	35.00	3 to 4 ft.....	45.00			3 to 4 ft.....	35.00
<i>Barberry, Red-leaved</i>		<i>Deutzia, Pride of Rochester</i>		18 to 24 ins.....	35.00	4 to 5 ft.....	40.00
12 to 15 ins.....	20.00	12 to 18 ins.....	16.00	2 to 3 ft.....	45.00		
15 to 18 ins.....	28.00	18 to 24 ins.....	22.00			<i>Symporicarpos Chenaulti</i>	
18 to 24 ins.....	35.00	2 to 3 ft.....	30.00	12 to 18 ins.....	16.00	12 to 18 ins.....	16.00
<i>Barberry, Thunbergi</i>		3 to 4 ft.....	40.00	18 to 24 ins.....	35.00	18 to 24 ins.....	22.00
12 to 15 ins.....	14.00			2 to 3 ft.....	45.00	2 to 3 ft.....	30.00
15 to 18 ins.....	18.00	<i>Deutzia Scabra Plena</i>		3 to 4 ft.....	55.00	<i>Symporicarpos Racemosus</i>	
18 to 24 ins.....	22.00	18 to 24 ins.....	25.00	12 to 18 ins.....	12.00	12 to 18 ins.....	12.00
2 to 2 1/2 ft.....	28.00	2 to 3 ft.....	35.00	18 to 24 ins.....	16.00	18 to 24 ins.....	16.00
<i>Barberry, Truehedge</i>		3 to 4 ft.....	45.00	2 to 3 ft.....	30.00	2 to 3 ft.....	22.00
(Pat. No. 110)		<i>Elaeagnus Angustifolia</i>		3 to 4 ft.....	40.00	3 to 3 1/2 ft.....	30.00
15 to 18 ins.....	35.00	3 to 4 ft.....	45.00				
18 to 24 ins.....	45.00	4 to 5 ft.....	55.00	<i>Philadelphus Bouquet Blanc</i>		<i>Symporicarpos Vulgaris</i>	
2 to 2 1/2 ft.....	55.00	5 to 6 ft.....	65.00	12 to 18 ins.....	18.00	12 to 18 ins.....	12.00
<i>Buckthorn, Cathartica</i>		<i>Forsythia Fortunei</i>		18 to 24 ins.....	22.00	18 to 24 ins.....	16.00
18 to 24 ins.....	15.00	12 to 18 ins.....	18.00	2 to 3 ft.....	30.00	2 to 3 ft.....	22.00
2 to 3 ft.....	20.00	18 to 24 ins.....	22.00	3 to 4 ft.....	40.00	3 to 4 ft.....	30.00
3 to 4 ft.....	30.00	2 to 3 ft.....	30.00				
<i>Buckthorn, Frangula</i>		3 to 4 ft.....	40.00	<i>Philadelphus Coronarius</i>		<i>Tamarix</i>	
18 to 24 ins.....	20.00			12 to 18 ins.....	18.00	<i>Africana, Amurensis, Gallica, Indica, Hispida, Odessana, Tetrandra</i>	
2 to 3 ft.....	28.00	<i>Forsythia Intermedia</i>		18 to 24 ins.....	22.00	<i>Purpurea</i>	
3 to 4 ft.....	35.00	12 to 18 ins.....	18.00	2 to 3 ft.....	30.00	12 to 18 ins.....	18.00
<i>Buckthorn, Korean</i>		18 to 24 ins.....	22.00	3 to 4 ft.....	40.00	18 to 24 ins.....	22.00
18 to 24 ins.....	20.00	2 to 3 ft.....	30.00			2 to 3 ft.....	30.00
2 to 3 ft.....	28.00	3 to 4 ft.....	40.00	<i>Philadelphus Lemoinei</i>		3 to 4 ft.....	45.00
3 to 4 ft.....	35.00	<i>Forsythia Intermedia Spectabilis</i>		12 to 18 ins.....	18.00	<i>Viburnum Dentatum</i>	
<i>Buckthorn, Korean</i>		12 to 18 ins.....	18.00	18 to 24 ins.....	22.00	18 to 24 ins.....	25.00
18 to 24 ins.....	20.00	18 to 24 ins.....	22.00	2 to 3 ft.....	30.00	2 to 3 ft.....	30.00
2 to 3 ft.....	28.00	2 to 3 ft.....	30.00	3 to 4 ft.....	40.00	3 to 4 ft.....	45.00
3 to 4 ft.....	35.00	3 to 4 ft.....	40.00	<i>Physocarpus Opulifolius</i>		<i>Viburnum Molle</i>	
<i>Buddleia Charming</i>		<i>Forsythia Spring Glory</i>		18 to 24 ins.....	25.00	18 to 24 ins.....	25.00
No. 1	25.00	18 to 24 ins.....	35.00	2 to 3 ft.....	35.00	2 to 3 ft.....	30.00
<i>Buddleia Dubonnet</i>		2 to 3 ft.....	45.00	3 to 4 ft.....	40.00	3 to 4 ft.....	45.00
No. 1	22.00	<i>Forsythia Suspensa</i>		4 to 5 ft.....	50.00	<i>Viburnum Opulus</i>	
<i>Buddleia Empire Blue</i>		12 to 18 ins.....	16.00	18 to 24 ins.....	25.00	18 to 24 ins.....	30.00
(Pat. No. 557)		18 to 24 ins.....	22.00	2 to 3 ft.....	30.00	2 to 3 ft.....	40.00
No. 1	35.00	2 to 3 ft.....	30.00	3 to 4 ft.....	45.00	<i>Weigela Bristol Ruby</i> (Patent No. 492)	
<i>Buddleia Fortune</i> (Pat. No. 206)		3 to 4 ft.....	35.00			2 to 3 ft.....	100.00
No. 1	30.00	<i>Hamamelis Virginiana</i>		<i>Rhus Canadensis</i>		3 to 4 ft.....	150.00
<i>Buddleia Ile de France</i>		12 to 18 ins.....	25.00	12 to 18 ins.....	20.00	<i>Weigela Eva Rathke</i>	
No. 1	22.00	18 to 24 ins.....	35.00	18 to 24 ins.....	22.00	12 to 18 ins.....	28.00
<i>Buddleia Orchid Beauty</i>		2 to 3 ft.....	45.00	2 to 3 ft.....	30.00	18 to 24 ins.....	40.00
No. 1	28.00	<i>Rhus Typhina Laciniata</i>		3 to 4 ft.....	40.00	2 to 3 ft.....	50.00
<i>Buddleia Pink Dawn</i>		12 to 18 ins.....	25.00	<i>Rose Acacia</i>		3 to 4 ft.....	60.00
No. 1	35.00	18 to 24 ins.....	35.00	18 to 24 ins.....	30.00	<i>Weigela Hendersoni</i>	
<i>Buddleia Royal Red</i>		2 to 3 ft.....	45.00	2 to 3 ft.....	35.00	12 to 18 ins.....	16.00
(Pat. No. 556)		3 to 4 ft.....	55.00	3 to 4 ft.....	45.00	18 to 24 ins.....	22.00
No. 1	35.00	<i>Salix Purpurea</i>				2 to 3 ft.....	30.00
<i>Buddleia Snowbank</i>		12 to 18 ins.....	16.00	18 to 24 ins.....	20.00	<i>Weigela Rosea</i>	
No. 1	35.00	18 to 24 ins.....	22.00	2 to 2 1/2 ft.....	25.00	12 to 18 ins.....	16.00
<i>Buddleia White Bouquet</i>		2 to 3 ft.....	30.00	<i>Sorbaria Sorbifolia</i>		18 to 24 ins.....	22.00
(Pat. No. 536)		3 to 4 ft.....	40.00	12 to 18 ins.....	18.00	2 to 3 ft.....	30.00
No. 1	40.00	<i>Honeysuckle, Bella Albida, Pink Tatarian, Red Tatarian, Grandiflora Rosea</i>		18 to 24 ins.....	25.00	3 to 4 ft.....	40.00
<i>Callicarpa Purpurea</i>		12 to 18 ins.....	16.00	2 to 3 ft.....	35.00		
18 to 24 ins.....	25.00	18 to 24 ins.....	22.00	3 to 4 ft.....	45.00	<i>HEDGING PRIVET</i>	
2 to 3 ft.....	30.00	2 to 3 ft.....	30.00			<i>Amur River North</i>	Per 1000
<i>Caragana Arborescens</i>		3 to 4 ft.....	40.00	18 to 24 ins., 2 canes.....	\$60.00		
12 to 18 ins.....	14.00	4 to 5 ft.....	45.00	18 to 24 ins., 3 canes and up	\$80.00		
18 to 24 ins.....	18.00	<i>Hydrangea Arborescens Grandiflora, Paniculata Grandiflora</i>		2 to 3 ft., 4 canes and up	100.00		
<i>Caryopteris Blue Mist</i>		12 to 18 ins.....	25.00	3 to 4 ft., 5 canes and up	160.00		
No. 1	28.00	18 to 24 ins.....	35.00	4 to 5 ft., 5 canes and up	200.00		
<i>Ceanothus Americanus</i>		2 to 3 ft.....	40.00				
12 to 18 ins.....	25.00	2 to 3 ft.....	40.00	<i>California</i>			
18 to 24 ins.....	40.00	2 to 3 ft.....	50.00	9 to 12 ins., branched.....	35.00		
<i>Cephalanthus Occidentalis</i>		3 to 4 ft.....	45.00	12 to 18 ins., 3 canes and up	50.00		
18 to 24 ins.....	25.00	<i>Spiraea Anthony Waterer</i>		18 to 24 ins., 3 canes and up	60.00		
2 to 3 ft.....	35.00	12 to 18 ins.....	25.00	2 to 3 ft., 4 canes and up	75.00		
3 to 4 ft.....	45.00	18 to 24 ins.....	30.00				
<i>Kerria Japonica, Single</i>		12 to 18 ins.....	28.00	<i>Vulgaris</i>			
		18 to 24 ins.....	40.00	18 to 24 ins., 3 canes and up	120.00		
		2 to 3 ft.....	50.00	2 to 3 ft., 4 canes and up	150.00		
<i>Kerria Japonica, Double</i>		12 to 18 ins.....	35.00	3 to 4 ft., 4 canes and up	200.00		



ESTABLISHED 1875

Mount Arbor Nurseries  
• SHENANDOAH IOWA •

# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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Forms for the March 15 issue close Monday, February 28.

Mail copy to arrive at Chicago by that date—no later.

# WANT LIST

All of this material is wanted for immediate delivery, and we would appreciate your directing your immediate quotations to the attention of Mr. Earl C. Herrick.

## SHRUBS

	3 to 4 ft.	2 to 3 ft.	18 to 24 ins.	15 to 18 ins.	12 to 18 ins.	12 to 15 ins.
Calycanthus Floridus	50	70	...	...	...	...
Cotoneaster Divaricata	...	...	40	...	...	...
Euonymus Alatus	...	450	830	...	...	...
Euonymus Alatus Compactus	...	...	...	30	...	10
Kolkwitzia Amabilis	500	...	...	300	...	...
Philadelphus Coronarius Aureus	...	...	...	...	...	...
Prunus Glandulosa	70	150	...	...	...	...
Rhus Cotinus	90	200	...	...	...	...
Syringa Chas. Joly	...	...	130	...	...	...
Syringa Ellen Willmott	...	...	240	...	...	...
Syringa Emile Gentil	...	...	160	...	...	...
Syringa Pres. Grevy	...	...	100	...	...	...
Syringa Vestale	...	...	110	...	...	...
Viburnum Carlesii	...	...	90	...	...	...
Viburnum Tomentosum	...	...	20	...	80	...
Weigela Eva Rathke	120	...	...	...	...	...

## ORNAMENTAL and FLOWERING TREES

	8 to 10 ft.	6 to 8 ft.	5 to 6 ft.	4 to 5 ft.	3 to 4 ft.	2 to 3 ft.
Acer Platanoides Schwedleri	115	30	...	...	...	...
Magnolia Soulangeana	...	...	...	60 B.R.	...	...
Prunus Persica Camellia	...	...	280	20	40	...
Prunus Persica Helen Borchers	...	...	50	160	120	...
Prunus Subhirtella Pendula	...	...	30	...	...	...

## ROSES

450 Summer Snow, No. 1

## VINES

200 Aristolochia Siphon, 2-yr., No. 1.

## SEEDS

50 lbs. Berberis Thunbergii Atropurpurea.

## EVERGREENS, etc.

300 Azalea Calendulacea, 18 to 24 ins., B&B  
250 Picea Pungens Glauca, 2 to 3 ft., B&B  
80 Pinus Montana Mughus, 15 to 18 ins., B&B  
115 Pinus Montana Mughus, 12 to 15 ins., B&B  
100 Taxus Cuspidata, 10 to 12 ins., Bare Root  
50 Thuja Occidentalis, 10 to 12 ins., Bare Root  
300 Thuja Pyramidalis, 12 to 18 ins., Bare Root

## FRUIT TREES

500 Apple 5-N-1, 9/16-in.  
20 Baldwin Dwarf, 5/8-in.  
40 Cortland Dwarf, 3/4-in.  
90 Cortland Dwarf, 5/8-in.  
130 Red Delicious Dwarf, 3/4-in.  
350 Red Delicious Dwarf, 5/8-in.  
150 Red McIntosh Dwarf, 3/4-in.  
350 Red McIntosh Dwarf, 5/8-in.  
10 Red Spy Dwarf, 5/8-in.  
70 R. I. Greening Dwarf, 3/4-in.  
50 R. I. Greening Dwarf, 5/8-in.  
10 R. I. Greening Dwarf, 1/2-in.  
20 Yellow Delicious Dwarf, 3/4-in.  
40 Yellow Delicious Dwarf, 5/8-in.  
140 Clapp's Favorite Dwarf, 5/8-in.

## FRUIT TREES

	11/16-in.	9/16-in.	7/16-in.
Abundance Plum	150	100	...
Fellenburg Prune	250	50	50
German Prune	50	...	...
Burbank Plum	150	...	...
Stanley Prune	150	50	100
Yellow Egg Plum	50	30	...
Superior Plum	40	...	...
Santa Rosa Plum	...	10	20
Belle of Georgia Peach	300	600	...
Champion Peach	50	150	...
Crawford Late Peach	150	50	...
Golden Jubilee Peach	800	3000	...
Rochester Peach	130	100	...
South Haven Peach	200	100	...

## SMALL FRUITS

10 Seneca Grape, 2-yr., No. 1  
2000 Lathem Raspberries, 1/4-in.  
3000 Cumberland Raspberries, 2-yr., Transplants  
1000 Bristol Raspberries, 2-yr., Transplants  
200 Bristol Raspberries, 1-yr., Tips  
100 Sodus Raspberries, 2-yr., Transplants

## PERENNIALS

160 Dianthus Mme. Mason, Field-grown  
200 Delphinium Black Knight, Field-grown  
150 Gypsophila Flamingo, Field-grown  
250 Verbena Venosa, Field-grown

**C. R. BURR & COMPANY, Inc.**

Manchester, Conn.

"Growing Since '98"



# AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*

Joan L. Kilner, *Assistant Editor*

## Editorial

### WAGE-HOUR PROPOSALS.

The definition of agriculture would remain the same in the wage-hour amendments proposed by members of the Senate and the House of Representatives, but the exemptions for agriculture would be considerably narrowed. Employees engaged in agriculture would no longer be specifically exempted as a class, and many nursery employees would be subject to the wage-hour law. The changes proposed in these bills should be of interest to nurserymen.

The House bill, HR 2033, which is reported to be nearing action by the House, exempts agricultural employees from hours regulations but provides for a complicated determination of wage requirements. Under the provisions any nurseryman or farmer employing more than the equivalent of four men regularly on a 6-day week for any three months' quarter would be subject to the minimum wage. Consequently, if the House proposal is passed, any nurseryman employing more than four persons will be covered by the minimum wage but will be exempt from the hours provision.

Under one Senate bill recently introduced, S-248, agricultural employees would be subject to both wage and hour provisions of the law, provided the employer operated a farming business that required more than eight employees. Time and one-half pay would be required for all hours in excess of the 40-hour week, meaning that the nurseryman would be subject to both the minimum wage and the hour provisions of the law.

Under a new Senate bill, S-653, the definition of agriculture and the exemptions on both the wage and hour provisions of the law for agricultural employees would remain unchanged, but general modifications are made in respect to coverage which might be interpreted to include many borderline nursery employees as employees "affecting commerce," for under the new wage-hour law proposals all business would be covered by both wage and hour provisions of the law unless specifically exempted due to the proposal to broaden the scope of coverage by including all employers engaged in "any activity affecting commerce." On this basis,

## The Mirror of the Trade

many nursery employees would be subject to wage-hour and overtime provisions of the law. The proposed minimum wage increase is from 40 cents to 75 cents per hour.

The employees of many nurserymen are exempt from wage-hour laws under the section providing exemption for "any employee engaged in any retail or service establishment the greater part of whose selling or servicing is in intrastate commerce." The Senate bill proposes to change this provision to cover only employees in any retail or service establishment of an employer "having not more than three such establishments and having a total annual volume of sales or servicing of not more than \$300,000." The House version of the proposed amendment restricts the exemption to those with "neither more than four such establishments nor a total annual volume of sales or servicing of more than \$500,000." Therefore, under the Senate bill, the exemption would apply to any nursery concern having four or more retail outlets and a total combined volume of \$300,000, while the House proposal would apply to any nursery with five or more retail outlets irrespective of dollar volume or with an annual volume of \$500,000 or more irrespective of the number of outlets involved.

### RETURN TO SALESMANSHIP.

A big potential market has been predicted for products of many kinds, from nursery stock to automobiles, and about the only problem seems to be to apply old-fashioned selling pressure against the buying reluctance that has developed with the downward trend in stock market and farm commodity prices in addition to resistance to high costs.

With the break in prices of some items and the reported downward trend in the cost of living, it is felt in many industries that the lush sellers' market really has ended, although, as the normal spring retail selling season opens, it has not altogether vanished. It has been obvious for some time that this sellers' market must end.

Not for seven years has the salesman or dealer had to seek out the buyer, and for these same years the salesman or dealer has been immune from company selling pressure because of insatiable demand and inadequate supply.

Well aware of the ultimate need for sharpening salesmen's wits, training programs for salesmen or dealers have been launched months ago by forward-looking firms in all lines of industry on a large scale. International Harvester Co. has been conducting such a course at Chicago, which dealers from all over the country attend. A result of the whole training program has been instilling of knowledge and confidence into the men who have to sell and service the buyers of this firm's equipment. On a smaller scale, there are a number of nursery firms which devote a few hours a week or rainy days to brushing up employees' sales technique. These are examples worthy of consideration by any business, large or small.

While it is true that nursery stock of many kinds is far from the point of supplying demand, so that some are postponing competition in the battle for sales, it is also true that the wide-awake nurseryman is under no illusion over possible buyers' resistance and is preparing his sales staff to make real sales out of the potential market which exists for nursery stock.

### AUTUMN MAIL SALES.

Reports from a number of nurserymen on the results obtained from catalogs mailed out last autumn show a general trend as to prices and volume.

Most of them reported good results, two-thirds showing an increase up to as high as fifty per cent, while the other third reported a decrease, varying from a slight amount to as much as thirty-five per cent.

The decline in sales was largely in fruits. Though a few reported sales equal to, or more than, last year, the greater number showed a considerable percentage less. Ornamentals, on the other hand, surpassed the preceding year in volume of sales in almost every instance.

Prices in autumn catalogs remained the same on all items, for the most part, though a few showed markups and a few lower prices on fruit trees if not on all items.

In reporting their intentions for the spring of 1949, these mail-order nurserymen recognize their higher costs by either maintaining or raising prices — more raising them for spring than did in autumn. While several nurserymen lowered prices on fruit trees, ornamentals were held firm.

# Largest Crowd in New England History

By *Louis C. Vanderbrook, Secretary*

The largest attendance in the history of the New England Nurserymen's Association was recorded February 1 to 3 when the thirty-eighth annual convention was held at the Hotel Statler, Boston. Seventy-eight member firms answered the roll call, and 100 employees of member firms and thirty visitors swelled the attendance.

All officers were reelected for 1949, so that Arthur Webster, A. N. Pierson, Inc., Cromwell, Conn., remains as president; Richard M. Wyman, Jr., Wyman's Framingham Nurseries, Framingham, Mass., vice-president; Louis C. Vanderbrook, C. L. Vanderbrook & Son, Manchester, Conn., secretary, and Peter J. Cascio, Peter J. Cascio Nursery, West Hartford, Conn., treasurer. Members of the executive committee are Willard Bond, North Abington, Mass.; Charles S. Burr, Manchester, Conn., and Luke C. May, Lexington, Mass.

Arthur Webster was elected to a one-year term as delegate to the A. A. N. convention, and Walton Wyman, to a 2-year term. Harold Atwater, was elected alternate. Luke C. May was elected chapter delegate to the eastern region executive committee for a 2-year term.

#### Officers Report.

The convention was called to order at 1:30 p. m. Tuesday, and President Arthur Webster welcomed the visiting guests and members and pointed out that the educational program committee, under the chairmanship of Cliff Corliss, had planned the day's program to cover the nurserymen's everyday problems in their own language. All speakers were nurserymen.

The reports of officers and special committees followed. Secretary Vanderbrook stated that fourteen new members had been admitted to the association. Treasurer Cascio's report showed the association to be in the best financial condition of its history.

Homer K. Dodge, chairman of the public relations committee, played two transcriptions so that members might hear some of the types of recorded programs which the association is having played by radio stations in New England, and he stated that the use of such transcriptions had been more successful in the past year than before, having reached a large audience in all parts of New

England. Radio time was given free of charge to the association, and many of the stations commended the programs and offered to use more of them when available.

#### A. A. N. Activities.

Peter J. Cascio, executive committeeman for region I of the American Association of Nurserymen, told of accomplishments of the A. A. N. during the year. He stated that the A. A. N. now has members in forty-four states, with one in Alaska and one in Puerto Rico. His talk covered the statistics on horticultural specialties production and sales as compiled



Arthur Webster.

by M. Truman Fossum, the 1950 census and 1949 and 1950 conventions.

Mr. Cascio also cited some figures about the nursery business in New England. He said that this region pays twenty-six per cent of the total A. A. N. dues. In 1939, fifty-nine per cent of the members' business was landscape work, with jobs running from \$32 to \$130 compared to a range of \$80 to \$225 in 1948, this showing a seventy-nine per cent increase in charge for landscape work. Purchases of landscape men in 1939 were about \$7,000 each compared to purchases in 1948 of \$16,000 each. He also said that the lowest labor cost, an average hourly rate of 87 cents per hour, was held in region I.

A. A. N. President Howard C. Taylor, Eastview, N. Y., spoke on "The A. A. N. Is Your Business," covering such topics as the size of the board of governors, the visits of officers to the various chapters and

state associations, dues and the public relations program assessment, participation in activities by members and legislation affecting the industry that will probably come up in Congress at this session.

#### Preparing Plants for Planting.

Wednesday's sessions were devoted to an educational program which has become a tradition with the New England Nurserymen's Association. Audience participation in a question-and-answer period after each talk was strongly urged, and all members cooperated in augmenting the discussions.

The first speaker of the day was George Tobey, Wyman's Framingham Nurseries, Framingham, Mass., whose subject was "Preparing the Plants for Planting." Mr. Tobey said that his first reaction to his assigned topic was "Why, yes, dig the plant, burlap it, throw it on the truck, deliver it and plant it, and that is all there is to it."

In opening his discussion, Mr. Tobey said he might begin as far back as the selection of seeds, or plants, growing and planting, but that would take too much time. He started with the premise that every nurseryman has grown a good crop of plants ready for digging. He divided his planting preparations into these parts: Digging and burlapping, preparing bare-rooted plants, storage, delivery and on-the-job planting operations. Digging, he said, may sound simple, but no two nurserymen can dig in the same manner because their soils are different. Each nurseryman must study his own situation, but the right kind of tools is most important. Every digging crew should be given these tools, a proper tool for every job to be done. The nurseryman must plan this whether it means tools for one man to dig a shrub or for a crew of men to dig large trees. Mr. Tobey emphasized that every minute that is saved in digging plants is a saving in the cost of labor. He asked if nurserymen knew just how long it took to dig a plant, just how large a ball to make on any specific size or sizes of plants.

If that is determined and one's digging foremen are thoroughly instructed, minutes can be saved, and minutes count. Mr. Tobey said that a uniform manner of burlapping would be of great assistance in saving

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# Record Crowd at New Jersey Meeting

By Raymond P. Korbobo, Secretary

In spite of the rain which fell not only on the meeting day but for several days before, 115 nurserymen came to the Hotel Hildebrecht, Trenton, January 28, for the annual winter meeting of the New Jersey Association of Nurserymen. This was actually the second day of the meeting because the first was held in conjunction with the eastern regional meetings January 3 and 4 at New York.

Officers elected for the coming year are: President, Fred Noble, Lovett's Nursery, Little Silver; first vice-president, Gerard Grootendorst, Oakland; second vice-president, William Wells, Jr., Cumberland Nurseries, Millville, and treasurer, August Kindsgrab. Retiring President Kurt Meyers, Hackettstown Nurseries, Inc., Hackettstown, invited A. A. N. President Howard C. Taylor, Eastview, N. Y., to install the new officers.

Three men were elected to the executive committee, Albert Flemer, F. & F. Nurseries, Springfield; George White, Bobbink & Atkins, East Rutherford, and William Howe, Howe Nurseries, Pennington. Paul Hoverman was chosen delegate to the New Jersey agricultural convention in 1950.

In appreciation of the fine work done by Frank Soraci, of the New Jersey bureau of plant industry, and of his interest in the association in

past years, members voted him an honorary membership.

The first speaker of the day was Curtis Porterfield, administrative assistant at the Washington, D. C., office of the A. A. N., who explained the functions of the American Association of Nurserymen in regard to the general nursery industry. He particularly stressed the importance of the fact that horticulture is considered a part of agriculture.

Dr. C. C. Hamilton, department of entomology, New Jersey agricultural experiment station, gave a brief resume of his work during the past year in three New Jersey nurseries on the use of mist blowers to control nursery insects. Dr. Hamilton was trying to find, for all practical purposes, two insecticides that might do the entire job of insect control work in New Jersey. With the multitude of different insecticides on the market, he is attempting to help solve the New Jersey nurserymen's insect control problem.

Dr. Hamilton prepared a mimeographed paper telling of his work in detail, and he has agreed to send a copy to any nurseryman who requests it. Requests may be addressed to Dr. C. C. Hamilton, Department of Entomology, College of Agriculture, Rutgers University, New Brunswick, N. J.

Dr. Hamilton followed his brief resume by showing his moving pic-

tures in color of much of the work done in these experiments.

He suggested that the nurserymen might consider growing blocks of nursery material eighty feet wide, because the mist blower used in the experiments proved efficient in covering swaths of about that width. Under such a block system, the mist blower could go up one road and cover the material on one side of the block and come back the next road and cover the other side. In Dr. Hamilton's tests, the time consumed was far below the time required to do the same work with other types of sprayers. "If the nurserymen really wanted to, they could spray their nursery under such a system in one-tenth the time that it now takes," said Dr. Hamilton.

Members of the New Jersey Florists' Association joined with nurserymen during luncheon, and many old friendships were renewed.

After the luncheon a color film, "Soil Conservation in Nursery Practice," was shown through the courtesy of Mount Arbor Nurseries, Shenandoah, Ia. It was an interesting contrast for the New Jersey nurserymen to see extensive nursery management being carried on in the mid-west compared to the intensive nursery management carried on in metropolitan New Jersey.

The next speaker, R. L. McLay, Treeland, Inc., Cambridge, Mass., discussed "Retail Merchandising," strongly emphasizing the possibilities in retail nursery merchandising. Since New Jersey is such a heavily populated area, this talk by an expert in the field was of special value to the members.

The resolutions committee next presented three important resolutions. The first will be sent to the governor of New Jersey and to the dean of the college of agriculture, Rutgers University, urging more prompt steps to set into motion a curriculum in landscape architecture at the college of agriculture. This curriculum would be in line with recommendations suggested by the National Landscape Nurserymen's Association. The second urged W. H. Martin, dean of the college of agriculture and director of the agricultural experiment station, to replace, as soon as possible, Richard B. Farnham, former extension specialist in floriculture, with a full-time extension horticulturist. The third resolution asked

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New officers of New Jersey Association of Nurserymen, left to right: Fred G. Noble, Little Silver, president; Gerard Grootendorst, Oakland, first vice-president; Kurt V. Meyer, Hackettstown, retiring president, and William Wells, Jr., Millville, second vice-president.

# Efficiency is Pennsylvanians' Theme

By R. P. Meabl

Stressing the theme of "efficiency," the annual meeting of the Pennsylvania Nurserymen's Association was held at the Bellevue-Stratford hotel, Philadelphia, January 25 and 26. A record of 145 persons registered. Officers elected for the coming year are: President, William M. Long, Southampton Nurseries, Southampton; first vice-president, Charles M. Boardman, Farr Nursery Co., Weiser Park; second vice-president, Owen B. Schmidt, F. D. Moore & Sons, Narberth, and secretary-treasurer, Albert F. Meehan, Thomas B. Meehan Co., Dresher. New members elected to the executive committee are A. F. W. Vick, Jr., Vick's Wildgardens, Narberth; Walter E. Stein, Enterprise Nurseries, Wrightsville, and Lewis Barr, B. F. Barr & Son Nurseries, Lancaster. Members of the executive committee carried over include Eugene Muller, DeKalb Nurseries, Norristown, and Stanley W. Leonard, Leonard & Leonard, Pittsburgh.

Highlighting the meeting was the presentation of gifts for twenty-five years of good and faithful service to Albert F. Meehan, secretary, and Gertrude Burns, assistant secretary. A silver serving tray was given to Mr. Meehan and a silver cigarette lighter set to Miss Burns. Dr. E. I. Wilde, who recently retired after thirty-six years' service with the department of horticulture, Pennsylvania State College, was presented with a silver vegetable serving set in appreciation of his long service and interest in nurserymen's problems.

## Open Forum.

The meeting was opened with a message of greeting by Charles K. Hallowell, Philadelphia county agricultural agent, and the remainder of the morning was devoted to an open forum on various phases of efficiency in the nursery business, with Frank S. LaBar, Stroudsburg, as moderator.

Charles W. Hetz, Fairview Evergreen Nurseries, Fairview, spoke on "Efficiency in Propagation," first mentioning propagation by seeds. For successful results, the source of seeds must be considered. It is desirable to gather one's own seeds if possible, he said, but when this is not feasible, it is best to purchase seeds from a reliable dealer. Seeds with fleshy coverings ordinarily should be cleaned. If seeds are obtained early enough in the fall, they may be planted directly

in the seedbeds. This will often take the place of stratifying. Those seeds which are obtained later should be stratified. Stratification is the mixing of the seeds in a moist material and storing at a low temperature for a period of time. The exact time will depend upon the variety or species of seeds. Spring planting was advocated for seeds stratified and for those requiring no storage period. Ericaceous material should be seeded in the greenhouse, said Mr. Hetz.

Propagation by cuttings was considered next. Cuttings may be taken either from hardwood or softwood material. Softwood cuttings are somewhat easier to root and are taken during the growing period, usually in June, July or August. Root-promoting substances will give increased percentage and shorten the time of rooting for most plants. Sand and peat are still the most frequently used materials for rooting, but are being replaced to some extent by vermiculite.

James S. Wells, manager of Koster Nursery, Bridgeton, N. J., spoke on "Efficiency in Nursery Management." He urged the use of sphagnum moss in germinating rhododendron seedlings. Soil for rhododendron seedlings should be maintained at a high acid content, pH of 4, in order to control diseases. The soil may be

treated with sulphur to control acidity. A new method of handling rhododendron grafts was described. Instead of placing plants in a grafting case at an angle, one makes the case deeper and sets the plants upright. More plants can be handled in the same amount of bench space. Although it is necessary to apply more bottom heat and spray more often, the saving of space makes it worth while.

Cuttings are rooted in 4-inch deep flats. The flats are moved to a deep frame for wintering, allowing the benches to be used for another crop of cuttings. The frame is sunken and is made of cinder block for sides (about four blocks deep), with drainage provided by cinders. Mats are used over the frames during the winter. The plants can stand freezing if allowed to thaw out gradually. Better rooting of rhododendron, magnolia and Pfitzer juniper cuttings is secured by wounding the basal end with a light cut through the bark. Cuttings should be inserted about two inches deep.

## A. A. N. President Speaks.

As luncheon speaker, Howard Taylor, Eastview, N. Y., president of the American Association of Nurserymen, urged all nurserymen to

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A table of celebrities at banquet of Pennsylvania Nurserymen's Association. Clockwise from lower left: Frank LaBar, A. A. N. past president; Howard C. Taylor, A. A. N. president; William M. Long, president of Pennsylvania Nurserymen's Association; Richard P. White, A. A. N. executive secretary; Richard Farnham, garden editor, Philadelphia Evening Bulletin; James S. Wells, manager, Koster Nursery; Eugene Muller, executive committee member of Pennsylvania Nurserymen's Association, and Albert F. Meehan, secretary-treasurer of Pennsylvania Nurserymen's Association.

# Annual Virginia Winter Meeting

By A. S. Gresham, Jr., Secretary

Registration for the annual winter meeting of the Virginia Nurserymen's Association held January 30 to February 1 at the Hotel John Marshall, Richmond, began at 2 p. m. Sunday, and by late afternoon seventy-five nurserymen had registered. The program began with a cocktail hour and buffet supper, given by nurserymen in the Richmond area. Then two color films were shown, one showing the fields and operations of A. J. Van Engelen, Inc., bulb growers at Hillegom, Holland, and the other giving the history of Swift & Co.

President W. B. Higgs reported on the activities of the association during the past six months, emphasizing the need for statistics on the Virginia nursery industry to substantiate demands and gain recognition in legislative matters and matters affecting the agricultural school.

Committee chairmen then reported as follows: John E. Coleman, executive; E. M. Quillen, legislative; A. J. Shoosmith, educational and promotional, and S. D. Tankard, membership. Mr. Tankard reported that the admission of seven new members in the past six months has brought total membership to 105.

After the introduction of visitors, Frank LaBar, Labars' Rhododendron Nursery, Stroudsburg, Pa., presented his outlook for the next year in the nursery business. A Dutch treat luncheon followed the showing of a film, "By Jupiter," presented through the courtesy of Miller & Rhoads, a local department store. The film emphasized the importance of sales training.

After luncheon, a color film, "The Spring Season at Cloverset," was shown through the courtesy of Cloverset Flower Farm, Kansas City, Mo. Temple Broaddus, vice-president of the Bank of Virginia, discussed precautions to take in matters of credit and finance. Owen Wood, Wood-Howell Nurseries, Bristol, showed movies of his hunting and fishing trip to the north woods.

Next on the program was a panel discussion on pest control led by H. M. Van Wormer, Richmond, assisted by G. T. French, C. R. Willey and F. R. Freund, of the state department of entomology; C. O. Kelly, of the Japanese beetle control program, Baltimore, Md., and C. F. Bruce, Swift & Co.

A banquet was held Monday night on the hotel's roof garden, which was

beautifully decorated with flowers and evergreens for the occasion. The decorations were planned by George Stockner and A. E. Andrews, both of Richmond. As the ladies entered the room, they were given gardenia corsages by Laird's Nurseries and Gresham's Nursery, Richmond, and camellia corsages by Coleman Nursery, Portsmouth. Entertainment and dancing followed the dinner.

Because he had no immediate use for his prize of three bales of Premier peat, contributed by Premier Peat Moss Corp., New York city, and was too far from home to have it delivered, John Meskers, Meskers Bros., Lisse, Holland, presented the bales to the association for auction and suggested that the money be contributed to the March of Dimes. A total of \$30 was received for the peat moss. This gave several nurserymen ideas, and C. F. Daley, Onancock, presented his exhibit of azaleas for auction, bringing \$85 for CARE. The Southern Pottery Co., Richmond, offered its display of pots, which were auctioned off for \$6.50 for the March of Dimes. Two Dutch dolls were donated by John Meskers. The American Agricultural Chemical Co. announced the seven winners of an identification contest held earlier in the day and awarded prizes of fifty pounds of Agrico to each winner.

Fred Shoosmith introduced Henry ("Uncle Henry") B. Chase, Chase Nursery Co., Chase, Ala., who gave his views on the past, present and future of the nursery industry in a talk entitled "What 'n Sam Hill!" The Chase Nursery Co. applied for membership in the association, and members voted unanimously to lay aside rules and regulations and accept it as a new member without delay.

"My Country," a color film on soil erosion control, was shown through the courtesy of Goodyear Tire & Rubber Co. Then Harold Seyler, Farr Nursery Co., Weiser Park, Pa., spoke on retail and local merchandising of ornamental plants, stirring up so much discussion that the program had to be interrupted for luncheon. He continued his subject at the luncheon table and after the meeting was called to order. The discussion gradually was worked into a panel on modern merchandising in the nursery business. Messrs. Chase, LaBar, Seyler and Broaddus participated in the round table, and E. M. Quillen served as moderator.

Out-of-state visitors included Mr. and Mrs. Harold Seyler, Weiser Park, Pa.; L. R. Casey and Martin W. Casey, Goldsboro, N. C.; D. Visscher, Liberty, N. C.; Frank LaBar, Stroudsburg, Pa.; F. D. Adams, Hyattsville, Md.; R. G. Bunting, Selbyville, Del.; Henry Chase, Chase, Ala.; Charles Hess, Mountain View, N. J.; L. A. Dunton, Newark, N. Y., and W. H. Handy, Baltimore, Md.

The exhibitors were Le-Mac Nursery, Hampton, Va.; Southside Nursery, Richmond, Va.; Southern Pottery, Richmond, Va.; A. J. Van Engelen, Inc., Hillegom, Holland; John Meskers Bulb Co., New York, N. Y.; John Bean Mfg. Co., Roanoke, Va.; Gresham's Nursery, Richmond, Va.; American Agricultural Chemical Co.; Premier Peat Moss Corp., New York, N. Y.; A. Frylink & Sons, Sassenheim, Holland; T. W. Wood & Sons, Richmond, Va.; Tankard Nurseries, Exmore, Va.; C. F. Daley & Sons, Onancock, Va., and Franklin Native Nursery, Franklin, Va.

## ILLINOIS COMMITTEES.

Committees of the Illinois State Nurserymen's Association for the coming year were appointed by President Roy Clavey at a recent meeting of the board of directors. They are: Legislative, Arthur H. Hill, chairman; Arthur E. Schroeder, Arthur Palmgren, Miles W. Bryant and M. J. Meyers; labor committee for Cook county and vicinity, Victor de St. Aubin, chairman; William McReynolds, Roger Leesley, Richard P. Thiedel and William B. Hagen; committee to confer with the department of horticulture, University of Illinois, Miles W. Bryant, chairman; George E. Galeener, Ernest E. Tosovsky, Elmer J. Spencer, John B. Hill, Charles Fiore and Arthur E. Schroeder.

Other committees appointed include: Planting of public highways and buildings, Ronald Cultra, chairman; Charles Fiore, William B. Hagen, William McReynolds, William J. Smart, Andrew Tures and Victor de St. Aubin; bylaws, Miles W. Bryant, chairman; Edward P. Eickhoff, and Elmer Palmgren; nominating, William B. Hagen, chairman; Myron Smith, and John Tures; resolutions, Elmer G. Spencer, chairman; H. B. Hartline, and Jacob Simonsen, and auditing, Edward P. Eickhoff, chairman; V. W. Darst, and R. C. Knupper.

# Good Oregon Turnout Despite Weather

By Robert Walker, Secretary

The midwinter meeting of the Oregon Association of Nurserymen and Oregon chapter 12 of the American Association of Nurserymen February 3 at the Heathman hotel, Portland, was well attended despite some of the worst winter weather and prolonged freezing temperatures within the memory of many an old-time nurseryman. Over 100 persons were in attendance when President Julia Hause called the meeting to order. Secretary Robert Walker read the minutes, and Treasurer Sigward Edstrom reported that the association had a healthy bank balance, as well as several United States savings bonds, to its credit. Wayne McGill, transportation chairman, called attention to the increase in parcel-post rates which had become effective January 1 and pointed out that shipping rates had increased four to six per cent during the past year.

Reporting on the Oregon Botanical Gardens project, Paul Doty read a paper by Dean Collins, of the Oregon Journal, stating that "The plan for the Oregon Botanical Gardens is a long-range plan which will extend far beyond the lifetime of any one person now interested in it. The growing migration of active horticultural interests and developments to the Pacific coast, and particularly to the Pacific northwest, should be considered. Steps have already been taken in both California and Washington toward the development of great arboreta and botanical gardens, aimed at developing these on a scale comparable to Kew Gardens in England and other historical old-world gardens."

Wayne McGill, A. McGill & Son, Fairview, substituted for Vice-president E. ("Mike") Dering in telling the group about the annual meeting of the Oregon Bulb, Florist and Nursery Council held February 2. Officers elected to head the council for the ensuing year are: President, M. B. McKay, Corbett, and secretary-treasurer, Wayne Mellott, Carlton Nursery Co., Forest Grove.

Mr. Averill, Multnomah county agent, reported on the damage done to crops and livestock in Oregon by fluorine. He recommended that pressure be brought to bear so that new industries coming into Oregon will build their factories in such a way as to eliminate danger to crops and livestock from hazardous fumes and

gases. Work being done by the Oregon agricultural experiment station, Corvallis, was also described by Mr. Averill. He emphasized that this work must be carried on to completion. Future meeting dates of the council will be announced later, said Mr. McGill.

Samuel J. Rich, chairman of the legislative committee, then reported that his committee had received from the Oregon Grange a copy of a proposed state marketing agreement act, an enabling act under which various commodity groups could set up industry controls. The committee was not prepared to make any recommendation as yet, but was watching developments and studying ramifications of the act, said Mr. Rich.

The key to a talk, "The Present Supply and Demand of Nursery Stock," by Avery Steinmetz, Portland, could be summed up in the word, "weather." Reports from Pacific coast nurserymen on losses in-

curred as a result of recent storms and cold weather varied from small to large, one California nurseryman writing of a \$50,000 loss. In the Portland area there was heavy damage to *Daphne odora* and azaleas, especially Ward's Ruby. *Camellia* buds were damaged, but there will still be flowers in the spring, Mr. Steinmetz said. Rhododendrons appear to be undamaged for the most part. Reports from eastern Washington and Idaho indicated heavy damage to individual rose plantings and also to general nursery stock. James Doty aided Mr. Steinmetz in the discussion by reading portions of letters describing damage resulting from the cold weather. A tone of optimism prevailed throughout most of them.

Ray Hartman, San Jose, Calif., claimed that the December frost helped harden nursery stock and prepare it for the January cold spell. He reported, however, that there was severe damage, especially to tender plants, such as bougainvillea and eugenia, and he estimated his own loss at about \$2,000. He said that his section of California could use a few more inches of moisture.

President Hause introduced Frank McKennon, chief of the Oregon bureau of plant industry, who in turn introduced A. G. Webb, of the United States Department of Agriculture bureau of entomology and plant quarantine, Seattle, Wash. Mr. McKennon also presented Dr. E. O. Kostal, of the bureau of entomology and plant quarantine, Hoboken, N. J., who spoke briefly about the prevention of entry of known pest and plant diseases into the United States from foreign countries.

Following this talk, Ben Hazen, of the Benjamin Franklin Savings & Loan Association, spoke on "The Low Cost of Leadership." He told the story of a man who, from a humble beginning, succeeded under our system of private enterprise and not only provided jobs for others but benefited his community in general. The cost of leadership actually amounts to a small part of the national income, said the speaker, quoting figures to prove this contention. In conclusion, he stated that those who share in the profits of free enterprise have a responsibility to spread the truth about such a system and teach their children both the bene-

[Continued on page 67.]



ROBERT WALKER.

Robert Walker, secretary of the Oregon Association of Nurserymen, has been in the nursery business for twelve years. A native of Oregon, he worked as an apprentice to John G. Bacher, Swiss Floral Co., Portland, and in time took over management of the nursery part of the business. In November, 1944, he became owner of the nursery and operated it as the Swiss Floral Nursery Co. until January 1, 1948, when he changed the name to the Holgate Nursery Co.

Mr. Walker specializes in the growing and hybridizing of rhododendrons and has a fine collection in an area fast becoming known for the quality and extent of its rhododendron culture. He has made thirty-three rhododendron crosses in the past three years.

# Ohio Nursery Short Course

By Everett E. Janne

Continuing the short course for nurserymen sponsored by Ohio State University, at Columbus, January 18 and 19, reported in part in the preceding issue, Norman Scott discussed his ideas on successful nursery practices. A graduate of Ohio State University and manager of Brookdale-Kingsway, Ltd., Bowmanville, Ont., Canada, Mr. Scott said that to be a successful nurseryman one must keep up with the latest practices and cultural methods that are constantly being developed by our colleges and experiment stations.

Mechanization and scientific practices within the nursery have removed a lot of the wrinkles and have contributed to successful practices as far as labor and production are concerned. But one important factor which money cannot buy is the brains which must precede and attend each successful operation. As an example, Mr. Scott pointed out that a power sprayer or a power digger will save much labor if used properly, but will do as much damage as good if used improperly.

The person in charge of nursery practices today cannot be a good grower unless he has a working knowledge of science. Contrary to public opinion, the growing of nursery stock is a science and as such deserves definite recognition, said Mr. Scott. He feels that in the future most of the nurserymen will come from colleges or at least will have some technical training to aid them in their practical work. He also advocates a system of apprenticeship in which the student would be required to spend a summer or two working with a reputable nurseryman to learn the practical aspects of the trade. Under this system the student would have to secure a favorable recommendation from his employer before he could be considered as a candidate for a degree.

Mr. Scott concluded his discussion by pointing out that while machines, experienced help and scientific aids contribute much to the efficient production of nursery stock, the nurseryman should not forget that it is still necessary to use good, clean cultural practices. The nursery stock is no better than the soil, its preparation, the fertilizer used and the cultural practices which go into growing the stock.

Following his discussion of nursery practices, Mr. Scott showed color

film taken at Brookdale-Kingsway, Ltd. The movie illustrated the kinds and volume of stock grown and general nursery practices used.

## Woody Ornamentals.

A lecture on "Some Woody Ornamentals" by Dr. L. C. Chadwick, department of horticulture, Ohio State University, was illustrated by colored slides. Some of the plants included in the discussion were the following:

Hydrangea quercifolia, the oak-leaf hydrangea, is considered by Dr. Chadwick as the best of the many hydrangeas. It has bold foliage which takes on an excellent fall color. Propagated either by root or stem cuttings, it tends to become leggy if grown in dense shade.

In Bignonia grandiflora, the clone Madam Galen trumpet creeper is much better than the species. The flowers are larger and bloom later than the other trumpet creepers. They will continue to bloom until frost. This clone is not as hardy as the species, but it is easier to keep in bounds.

Viburnum burkwoodi is an excellent flowering plant which would be excellent even if it did not flower. Dr. Chadwick believes it is unfortunate that most people consider it as a substitute for V. carlesii. Actually they should not be compared. It has a different habit of growth than V. carlesii. Burkwood viburnum grows well in congested areas and is tolerant of the smoky atmosphere found in many cities. It has a good fall color.

Cercis canadensis alba is a plant which should be used more often because the white flowers are attractive when mixed in with the other spring colors. It is just as hardy as the species and makes an excellent small tree.

One of the trees discussed was Phellodendron amurense, the Amur cork tree, which Dr. Chadwick considers an excellent tree for large lawns or parks. It is comparatively free of insects, withstands adverse growing conditions and does well in smoky areas. However, it branches [Continued on page 50.]

## SPECIAL TRADE OFFERING FOR SPRING, 1949

PRICES ARE QUOTED ON TREES "STANDING IN NURSERY."  
OUR LABOR IS SHORT AND WE CANNOT DIG AND SHIP THEM.

	Per 10	Per 100
PINK DOGWOOD, 8 to 10 ft.	\$ 65.00	\$550.00
10 to 12 ft.	85.00	750.00
Well spaced, 14 to 16 ft. x 10 to 12 ft.	300.00	...
WHITE DOGWOOD, 8 to 10 ft.	50.00	...
10 to 12 ft.	65.00	...
14 to 16 ft.	150.00	...
FLOWERING CRABS, in variety, 6 to 8 ft.	25.00	200.00
8 to 12 ft.	35.00	300.00
12 to 14 ft. (broad trees).	75.00	...
WASHINGTON THORNS, 8 to 10 ft.	50.00	...
10 to 12 ft.	65.00	...
12 to 14 ft.	80.00	...
COPPER BEECH, 12 to 14 ft.	140.00	...
14 to 16 ft.	160.00	...
Extra-selected, heavy-cal. trees, 15 to 18 ft., \$35.00 each.		
ENGLISH WEEPING BEECH, 9 to 12 ft.	65.00	...
WHITE DOGWOOD, double flowering, 8 to 10 ft.	50.00	...
10 to 12 ft.	60.00	...
Heavy, selected broad trees, \$10.00 each.		
REDBUD, American, 8 to 10 ft.	15.00	100.00
Heavy branched, 12 to 16 ft., \$8.00 each.		
MOLINE ELMS, 2 to 3½-in. cal.	30.00	...
PIN OAK, 6 to 8 ft.	8.50	75.00
8 to 10 ft.	12.50	100.00
10 to 12 ft.	17.50	150.00
5½ to 7-in. cal., \$25.00 each.		
WHITE BIRCH, 12 to 16 ft.	30.00	...
ELMS, CORK BARK, 2½ to 3½-in. cal.	40.00	...
WEEPING FL. CHERRY, S. PINK (subhirtella pendula), 2½ to 3-in. cal.	\$17.50	
3 to 4-in. cal.	25.00	
Extra-heavy branched specimens.	40.00	
FLOWERING CHERRIES, in var. (upright forms), 3 to 4-in. cal.	20.00	
4 to 5-in. cal.	27.50	
WHITE PINES, 14 to 16 ft.	25.00	
	Each	

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## HARDY FLOWERING SHRUBS, ORNAMENTAL TREES AND VINES

We offer for Spring, 1949, delivery the following list of Shrubs, Ornamental Trees and Vines in the following grades and varieties. All trees are first-class quality and up to grade. Orders accepted subject to any injury or loss from causes beyond our control. We are careful to keep varieties labeled true-to-name and will replace on proper proof any stock that may prove otherwise, free of charge, or refund the purchase price, but it is mutually agreed that we shall not be liable for any amount greater than the purchase price paid us.

NO CLAIMS WILL BE CONSIDERED UNLESS MADE IN WRITING WITHIN 10 DAYS AFTER RECEIPT OF GOODS.

TERMS and CONDITIONS: Same as in our Regular Fall List.

### HARDY DECIDUOUS FLOWERING SHRUBS

#### ACANTHOPanax PENTAPHYLLUM.

	Per 10	Per 100	Per 1000
Five-leaved Aralia.			
L.O., C.	\$0.40	\$ 3.50	\$ 30.00
6 to 12 ins., C.	.50	4.50	40.00

#### ALMOND, Prunus Glandulosa.

Double, Pink-flowering Almond. (Own root.)			
12 to 18 ins., Tr., well Br.	2.50	20.00	...

#### ALTHAEA. Hibiscus Syriacus.

Shrub Althaea.			
Varieties:			

##### Amplissimum, Double Red.

2 to 3 ft., Tr.	2.00	15.00	125.00
3 to 4 ft., Tr.	2.50	20.00	...

##### Rosea, single flowers, mixed colors.

4 to 6 ins., S.	.50	4.00	
6 to 12 ins., S.	.80	7.00	

#### AMORPHA FRUTICOSA. False Indigo.

L. O., 1-yr. S.	.30	2.50	20.00
6 to 12 ins., 1-yr. S.	.40	3.00	25.00
12 to 18 ins., 1-yr. S.	.50	4.00	30.00

#### BERBERIS THUNBERGII ATROPURPUREA.

Red-leaved Barberry.			
6 to 9 ins., 2-yr. S.	.60	5.00	45.00
9 to 12 ins., 2-yr. S.	.80	7.00	60.00
9 to 12 ins., 2-yr. S., Br.	1.00	9.00	80.00
12 to 15 ins., 3-yr. S., Br.	2.00	17.50	150.00
15 to 18 ins., 3-yr. S., Br.	2.50	22.50	200.00
18 to 24 ins., 3-yr. S., Br.	4.00	35.00	300.00

#### Buddleia DAVIDII. Butterfly Bush.

12 to 18 ins., 1-yr. Tr., No. 2.	1.50	12.50	...
18 to 24 ins., 1-yr. Tr., Medium	2.00	15.00	...
2 to 3 ft., 1-yr. Tr., No. 1	3.00	20.00	...

#### CEPHALANTHUS OCCIDENTALIS.

Buttonbush.			
6 to 12 ins., C.	.40	3.50	30.00
12 to 18 ins., C.	.50	4.00	35.00

#### CORNUS AMOMUM. Silky Dogwood.

2 to 3 ft., Tr., well Br.	2.00	15.00	125.00
3 to 4 ft., Tr., well Br.	2.50	17.50	...

#### CORYLUS AVELLANA.

European Filbert.			
18 to 24 ins., 3-yr. Br.	2.00	17.50	...
2 to 3 ft., 3-yr. Br.	3.00	25.00	...

#### CYDONIA JAPONICA. Japanese Quince.

18 to 24 ins., 2-yr., well Br.	1.75	15.00	125.00
2 to 3 ft., 2-yr., well Br.	2.50	20.00	175.00

#### CYDONIA JAPONICA RUBRA.

Japanese Quince, True upright red. Per 10	Per 100	Per 1000	
4 to 6 ins., C., L. O.	\$0.80	\$ 7.00	\$ 60.00
6 to 12 ins., C., L. O.	1.00	8.00	75.00
12 to 18 ins., C., L. O.	1.75	15.00	120.00
12 to 18 ins., 2-yr., well Br.	3.00	25.00	200.00
18 to 24 ins., 2-yr., well Br.	4.00	35.00	300.00

#### DEUTZIA SCABRA.

Varieties:			
Candida, Double White.			
Crenata, Double Pink.			
Pride of Rochester, Double Red.			
3 to 4 ft., well Br.	2.00	15.00	125.00
4 to 5 ft., Heavy.	3.00	25.00	...

#### FORSYTHIA FORTUNEI. Fortune Forsythia.

FORSYTHIA FORTUNEI. Fortune Forsythia.			
FORSYTHIA INTERMEDIA. Border Forsythia.			
6 to 12 ins., C.	.30	2.50	20.00
12 to 18 ins., C.	.35	3.00	25.00
18 to 24 ins., C.	.40	3.50	30.00
2 to 3 ft., C.	.60	5.00	40.00
3 to 4 ft., well Br.	2.50	17.50	150.00

#### FORSYTHIA SIEboldi

FORSYTHIA VIRIDISSIMA.			
Greenstem Forsythia.			
6 to 12 ins., 1-yr. C.	.30	2.50	20.00
12 to 18 ins., 1-yr. C.	.35	3.00	25.00
18 to 24 ins., 1-yr. C.	.40	3.50	30.00

#### HYDRANGEA PANICULATA GRANDIFLORA.

Pegege Hydrangea.			
2 to 3 ft., 2-yr., well Br.	4.50	40.00	...

#### HYPERICUM PROLIFICUM.

Shrubby St.-John's-wort.			
6 to 12 ins., S.	.25	1.50	12.00
12 to 18 ins., S.	.35	2.50	20.00
18 to 24 ins., S.	.45	3.50	30.00

#### LIGustrum AMURENSE.

Amur River North Privet.			
12 to 18 ins., 2 Br.	.50	4.00	35.00
12 to 18 ins., 3 Br. up.	.60	5.00	45.00
18 to 24 ins., 2 Br.	.60	5.00	45.00
18 to 24 ins., 3 Br. up.	.80	7.00	60.00
2 to 3 ft., 4 Br. up.	1.00	8.00	75.00

#### LIGustrum OVALIFOLIUM.

California Privet.			
12 to 18 ins., 2 Br., 2-yr.	.35	3.00	25.00
18 to 24 ins., 2 Br., 2-yr.	.45	3.50	30.00
3 to 4 ft., 5 Br. up., 2-yr.	1.00	8.00	70.00

(10 per cent discount allowed in lots of 5,000 or more.)

Please turn the page for more Shrubs, Ornamental Trees and Vines.

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## LIGustrum SINENSE.

	Per 10	Per 100	Per 1000
12 to 18 ins., S.....	\$ 1.00	\$ 6.00	
18 to 24 ins., S.....	1.25	8.00	
2 to 3 ft., S.....	2.00	18.00	
12 to 18 ins., 2-yr., Br., S.....	3.00	25.00	
18 to 24 ins., 2-yr., Br., S.....	4.00	30.00	
2 to 3 ft., 2-yr., well Br., S.....	4.50	40.00	
18 to 24 ins., Tr., well Br.....	\$ 0.60	5.00	45.00
2 to 3 ft., Tr., well Br.....	.80	7.00	60.00
3 to 4 ft., Tr., well Br.....	1.00	9.00	80.00
4 to 5 ft., Tr., well Br.....	1.50	12.00	100.00

## LONICERA FRAGRANTISSIMA.

	Per 10	Per 100	Per 1000
6 to 12 ins., C.....	.40	3.00	25.00
12 to 18 ins., C.....	.45	3.50	30.00
18 to 24 ins., C.....	.50	4.00	35.00
12 to 18 ins., C., 3 Br. up.....	.90	8.00	70.00
18 to 24 ins., C., 3 Br. up.....	1.25	10.00	90.00
2 to 3 ft., C., 4 Br. up.....	2.00	15.00	125.00

## RHUS COPALLINA. Shining Sumac.

## RHUS GLABRA. Smooth Sumac.

## RHUS TYPHINA. Staghorn Sumac.

	Per 10	Per 100	Per 1000
6 to 12 ins., C.....	1.00	8.00	
12 to 18 ins., C.....	.15	1.25	10.00
18 to 24 ins., C.....	.20	1.50	12.00
2 to 3 ft., S.....	.30	2.00	15.00
3 to 4 ft., S.....	.45	3.50	30.00

## ROBINIA HISPIDA. Rose Acacia.

	Per 10	Per 100	Per 1000
12 to 18 ins., L.O.....	.35	2.50	20.00
18 to 24 ins., L.O.....	.40	3.00	25.00
2 to 3 ft., L.O.....	.50	4.00	30.00

## SPIRAEA ARGUTA. Garland Spiraea.

	Per 10	Per 100	Per 1000
4 to 6 ins., C.....	.60	4.00	35.00
6 to 12 ins., C.....	.70	6.00	50.00
12 to 18 ins., C.....	.90	7.50	70.00

## SPIRAEA BILLARDI ROSEA.

	Per 10	Per 100	Per 1000
6 to 12 ins., 1-yr. C.....	.60	5.00	...
12 to 18 ins., 1-yr. C.....	.80	7.00	...

## SPIRAEA CALLOSA ROSEA.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.....	3.00	25.00	
12 to 18 ins., S.....	3.50	30.00	
18 to 24 ins., S.....	4.00	35.00	

## SPIRAEA OPULIFOLIA (Physocarpus).

	Per 10	Per 100	Per 1000
12 to 18 ins., C.....	.60	5.00	40.00
18 to 24 ins., C.....	.70	6.00	50.00
12 to 18 ins., 3 Br. up.....	1.50	12.50	...
18 to 24 ins., 3 Br. up.....	2.00	15.00	...

## FOREST and SHADE TREES

## ACER DASYCARPUM. Silver Maple.

	Per 10	Per 100	Per 1000
18 to 24 ins., S.....	\$ 0.30	\$ 2.00	\$ 15.00
2 to 3 ft., S.....	.40	3.00	25.00
3 to 4 ft., S.....	.50	4.00	35.00
4 to 5 ft., S.....	.80	6.00	50.00
5 to 6 ft., S.....	1.25	10.00	90.00
6 to 8 ft., S.....	3.50	25.00	200.00
5 to 6 ft., Tr.....	6.00	50.00	...
6 to 8 ft., Tr.....	7.50	65.00	...

## ACER NEGUNDO. Box Elder.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.....	.20	1.50	12.00

## ACER RUBRUM. Scarlet Maple.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.....	.30	2.00	15.00
12 to 18 ins., S.....	.35	2.50	20.00

	Per 10	Per 100	Per 1000
18 to 24 ins., S.....	.45	3.00	25.00

## ACER SACCHARUM. Sugar or Hard Maple.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.....	.30	2.00	15.00
12 to 18 ins., S.....	.35	2.50	20.00
18 to 24 ins., S.....	.40	3.50	30.00

## AESCULUS OCTANDRA. Yellow Buckeye.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.....	.35	2.50	20.00
12 to 18 ins., S.....	.45	3.50	30.00
18 to 24 ins., S.....	.60	5.00	...
2 to 3 ft., S.....	.90	7.00	...

## SPIRAEA PRUNIFOLIA. Bridal Wreath.

	Per 10	Per 100	Per 1000
12 to 18 ins., 2-yr., well Br.....	\$ 2.00	\$ 15.00	\$ 125.00
18 to 24 ins., 2-yr., well Br.....	2.50	22.00	200.00
2 to 3 ft., 2-yr., well Br.....	3.00	26.00	230.00
3 to 4 ft., 2-yr., well Br.....	4.00	30.00	...

## SPIRAEA REEVESIANA. Single White Flower.

	Per 10	Per 100	Per 1000
6 to 12 ins., C.....	.40	3.00	25.00

## SPIRAEA THUNBERGII. Thunberg Spiraea.

	Per 10	Per 100	Per 1000
12 to 18 ins., C.....	.70	6.00	50.00

## SPIRAEA VANHOUTTEI. Van Houtte Spiraea.

	Per 10	Per 100	Per 1000
12 to 18 ins., 2-yr., well Br.....	1.50	12.50	100.00
18 to 24 ins., 2-yr., well Br.....	2.00	17.50	150.00
2 to 3 ft., 2-yr., well Br.....	2.50	22.50	200.00

## SYMPHORICARPOS VULGARIS. Coralberry.

	Per 10	Per 100	Per 1000
6 to 12 ins., 1-yr. C.....	2.00	15.00	
12 to 18 ins., 1-yr. C.....	2.50	20.00	
18 to 24 ins., 1-yr. C.....	3.50	30.00	
12 to 18 ins., 1-yr., well Br.....	.60	5.00	40.00
18 to 24 ins., 2-yr., well Br.....	1.00	9.00	80.00

## SYRINGA PERSICA.

	Per 10	Per 100	Per 1000
Persian Lilac, purple.			
6 to 12 ins., 1-yr. C.....	1.00	9.00	80.00
12 to 18 ins., 1-yr. C.....	1.25	10.00	90.00
18 to 24 ins., 1-yr. C.....	1.50	12.50	100.00

## VITEX AGNUS-CASTUS. Lilac Chaste Tree.

	Per 10	Per 100	Per 1000
VITEX INCISA. Cutleaf Chaste Tree.			
6 to 12 ins., S.....	.50	4.00	35.00
12 to 18 ins., S.....	.60	5.00	45.00
18 to 24 ins., S.....	.80	7.00	...

## WEIGELA AMABILIS. Light Pink.

	Per 10	Per 100	Per 1000
6 to 12 ins., C.....	.45	4.00	35.00
12 to 18 ins., C.....	.55	5.00	45.00
18 to 24 ins., C.....	.65	6.00	55.00

## WEIGELA HENDERSONI. Dark Pink.

	Per 10	Per 100	Per 1000
6 to 12 ins., C.....	.45	4.00	35.00
12 to 18 ins., C.....	.55	5.00	45.00
18 to 24 ins., C.....	.65	6.00	...

## WEIGELA ROSEA. Pink.

	Per 10	Per 100	Per 1000
6 to 12 ins., C.....	.45	4.00	35.00
12 to 18 ins., C.....	.55	5.00	45.00
18 to 24 ins., 2-yr., well Br.....	1.50	12.50	...

## AILANTHUS GLANDULOSA. Tree of Heaven.

	Per 10	Per 100	Per 1000
12 to 18 ins., S.....	\$ 0.35	\$ 2.50	\$ 20.00</td

## WHOLESALE PRICE LIST—FOREST NURSERY CO.

## FOREST and SHADE TREES—Continued

CERCIS CANADENSIS.  
American Redbud.

	Per 10	Per 100	Per 1000
4 to 6 ins., S.	\$ 1.50	\$ 10.00	
6 to 12 ins., S.	\$.25	2.00	15.00
12 to 18 ins., S.	.30	2.50	20.00
18 to 24 ins., S.	.45	3.50	30.00
2 to 3 ft., S.	.60	5.00	45.00
3 to 4 ft., S., Br.	1.25	10.00	90.00
3 to 4 ft., Tr., Br.	4.00	35.00	—
4 to 5 ft., Tr., Br.	6.00	50.00	—
5 to 6 ft., Tr., Br.	8.50	75.00	—

## CITRUS TRIFOLIATA. Hardy Orange.

6 to 12 ins., S.	.65	5.00	40.00
12 to 18 ins., S.	.85	7.00	60.00

## FAGUS AMERICANA. American Beech.

4 to 6 ins., S.	1.25	10.00	
6 to 12 ins., S.	.25	1.50	12.50
12 to 18 ins., S.	.30	2.00	15.00
18 to 24 ins., S.	.40	2.50	20.00

FRAXINUS AMERICANA. White Ash.  
FRAXINUS LANCEOLATA. Green Ash.

6 to 12 ins., S.	1.00	8.00	
12 to 18 ins., S.	.25	1.50	12.50
18 to 24 ins., S.	.30	2.50	20.00

## GINGKO BILOBA.

4 to 6 ins., S.	1.00	8.00	
-----------------	------	------	--

## GYMNOCLADUS DIOICUS.

Kentucky Coffee Tree.

6 to 12 ins., S.	1.50	12.50	
12 to 18 ins., S.	2.00	15.00	
18 to 24 ins., S.	2.50	20.00	

## JUGLANS REGIA. English Walnut.

3 to 4 ft., S.	20.00		
4 to 5 ft., S.	30.00		

## JUGLANS SIEBOLDIANA.

Japanese Walnut.

6 to 12 ins., S.	1.50	12.50	
12 to 18 ins., S.	2.00	15.00	

## VINES and CREEPERS

## BIGNONIA RADICANS. Trumpet Creeper.

	Per 10	Per 100	Per 1000
6 to 12 ins., 1-yr. S.	\$ 0.30	\$ 2.00	\$ 15.00
12 to 18 ins., 1-yr. S.	.40	3.00	25.00
18 to 24 ins., 1-yr. S.	.80	7.00	65.00
2 to 3 ft. No. 1	1.00	9.00	85.00

## CELASTRUS SCANDENS.

American Bittersweet.

12 to 18 ins., S.	.40	3.00	25.00
18 to 24 ins., S.	.50	4.00	30.00
12 to 18 ins., Tr., Br.	.70	6.00	—
18 to 24 ins., Tr., Br.	1.00	8.00	—
2 to 3 ft. Tr., Br.	1.25	10.00	—

## WISTARIA FRUTESCENS.

American Wistaria.

## WISTARIA SINENSE. Blue.

Chinese Wistaria.

1-yr. S., No. 2	.80	6.00	
1-yr. S., No. 1	1.00	8.00	
Grafting grade, $\frac{1}{4}$ -in. and up		10.00	
18 to 24 ins., 2-yr. S.	2.00	15.00	
2 to 3 ft., 2-yr. S.	2.50	20.00	

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6 to 12 ins., S.	\$ 0.20	\$ 1.25	\$ 10.00
12 to 18 ins., S.	.25	1.50	12.00
18 to 24 ins., S.	.30	2.00	15.00
2 to 3 ft., S.	.35	2.50	20.00

## PAULOWNIA TOMENTOSA.

Each

2 to 3 ft., 1-yr. Tr.	\$ 0.50	4.00	
3 to 4 ft., 1-yr.	.75	7.00	
4 to 5 ft.	1.00	9.00	

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American Plane Tree.

8 to 10 ft., Tr.	14.00	125.00	
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Lombardy Poplar.

4 to 5 ft., 2-yr. Tr.	4.00	30.00	250.00
5 to 6 ft., 2-yr. Tr.	5.00	40.00	350.00
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2 to 3 ft., 1-yr., dormant buds	3.50	30.00	
3 to 4 ft., 1-yr., dormant buds	4.50	40.00	
4 to 5 ft., 1-yr., dormant buds	5.50	50.00	

## QUERCUS PRINUS. Chestnut Oak.

Black Locust.

3 to 4 ft., S.	.50	4.00	30.00
4 to 5 ft., S., Br.	2.00	15.00	125.00
5 to 6 ft., S., Br.	4.00	30.00	225.00
6 to 8 ft., S., Br.	6.00	50.00	—

## SALIX VITELLINA.

Golden Weeping Willow.

12 to 18 ins., C.	.30	2.00	15.00
18 to 24 ins., C.	.40	3.00	25.00
2 to 3 ft., C.	.50	3.50	30.00

## ULMUS PUMILA. Chinese Elm.

12 to 18 ins., S.	1.50	12.50	
18 to 24 ins., S.	2.00	18.00	
2 to 3 ft., S.	.40	3.50	30.00
3 to 4 ft., S.	.60	4.50	40.00
4 to 5 ft., S.	.90	7.00	60.00

## BROAD-LEAVED EVERGREENS

## ABELIA GRANDIFLORA.

	Per each	Per 10
2 to 3 ft., bare root	\$ 0.50	\$ 4.00
2 to 3 ft., B&B	.70	6.00
3 to 4 ft., bare root	.70	6.00
3 to 4 ft., B&B	1.00	9.00
4 to 5 ft., B&B	1.40	12.50

## ILEX VOMITORIA. Yaupon Holly.

3 to 4 ft.	3.50	30.00
4 to 5 ft.	4.50	40.00
5 to 6 ft.	5.50	50.00

## LIGUSTRUM LUCIDUM. Wax-leaf Privet.

18 to 24 ins.	1.50	12.50
24 to 30 ins.	1.75	15.00
30 to 36 ins.	2.00	17.50

# Ohio Short Course for Arborists

By Donald E. Erskine

## FERTILIZER PRACTICES.

Norman Armstrong, White Plains, N. Y., who spoke on "Fertilizer Practices" at the short course for arborists and landscape gardeners sponsored by Ohio State University January 12 to 14 at Neil House, Columbus, O., was particularly well qualified to speak on this subject because of his wide experience as an arborist. He remarked that the phrasing of the title was particularly fortunate as it gave him an opportunity to tell how trees actually are fed rather than how they should be fed.

In many instances, trees which have been well fertilized and are growing satisfactorily may be free from insect pests while near-by trees, not so treated, may be seriously infested. Mr. Armstrong believes that someday a fertilizer which will act as an insect repellent will be developed.

No single method of applying fertilizers, or any one type of fertilizer, is the answer to all problems; the material and method of application should be fitted to the condition of the particular tree, to the time of year, to the type of soil and often to other factors, he continued. In addition to learning all possible about the conditions, one must do some reasoning and some guessing because not enough about tree feeding is known to proceed without guessing.

The effectiveness of the different methods of feeding varies with conditions. The Irish Aero-fertil method works best in heavy and medium soils, but in light soils the air is dissipated near the gun, said Mr. Armstrong. Lighter soils are usually well enough aerated without employing any artificial means. Heavy soils are broken up with the Aero-fertil gun, and air and water can move through them. The use of tile or broken stone is more permanent. It is essential to aerate where there is a fill over the roots, where the soil has become compacted or where it is naturally hard or waterlogged.

Mr. Armstrong does not like to use the "punch-bar method" in heavy soils because the soil around the hole becomes too compact and prevents lateral movement of the fertilizer and thus its distribution to the absorbing roots. However, in light and medium soils he recommends this method as excellent, especially when humus is mixed with the fertilizer.

Jet feeding is particularly well adapted for use in light soil. It could be used in hard soils during a drought period after the soil is broken up with compressed air. The method gives quick but lasting results and makes it possible to reach places which cannot be reached any other way. The cost of application is nearly the same by any of the afore-mentioned methods. The important thing is doing a good job and not the cost involved, Mr. Armstrong stressed.

It is a good idea to mulch all trees. Probably the best mulch can be made by mixing leaf mold with animal manure and adding a complete chemical fertilizer. Mr. Armstrong stated that ideas vary considerably on what constitutes the best complete chemical fertilizer. A 10-2-2 mixture is probably best for feeding old trees which have an abundant supply of stored carbohydrates. Nitrogen is needed to balance this reserve and bring satisfactory growth. It would be difficult to give old trees too much nitrogen. The total number of units contained in a complete fertilizer

on a hundredweight basis is not nearly as important as the proportion of each that is present. Although phosphorus is important to plant growth, there is no good reason for it to be present in twice the quantity of nitrogen and potash, said Mr. Armstrong, claiming that he has had best results with a 9-8-7 fertilizer.

The importance of trace elements is often overlooked, perhaps because so little is known about them. Leaf analysis will be a great help in determining which are present, which are lacking, or which are needed by a particular tree. The addition of humus to the soil increases the number of bacteria which give off carbon dioxide, which in turn helps to liberate the mineral elements and among them the minor elements. Inorganic fertilizers have not been shown to decrease the number of bacteria in the soil. Mr. Armstrong warned that decomposing green organic matter may create toxic gases that are highly injurious to roots.

Various methods of determining the amount of fertilizer which should

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	Per 100
12 to 18 ins., XXX, sheared, B&B .....	\$100.00
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Dormant Liners from Field Beds

<i>Thuja globosa</i> XX, 6 to 9 ins.	<i>Azalea mollis</i> XX, 4 to 6 ins.	<i>Azalea mollis</i> XX, 6 to 9 ins.	<i>Euonymus carrierei</i> XX, 8 to 12 ins.
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(From a photograph taken Jan. 1, 1949.)

### 2-year and 3-year, field-grown plants

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X Indicates number of times transplanted.

	Each	Each
	per 100	per 1000
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<i>Azalea Ghent hybrids</i> , XX, 4 to 6 ins.	.25	.23
<i>Azalea kaempferi hybrid</i> , X, 3 to 6 ins.	.15	.13
<i>Azalea mollis</i> , XX, 4 to 6 ins.	.25	.23
<i>Azalea mollis</i> , XX, 6 to 9 ins.	.45	.40
<i>Berberis thunbergii</i> , X, 4 to 8 ins.	.04	.03
<i>Buddleia davidi superba</i> , adig., 1-yr.	.05	...
<i>Buxus microphylla koreana</i> , X, 3 to 5 ins.	.20	...
<i>Buxus microphylla</i> , X, 3 to 10 ins.	.12	...
<i>Buxus smyrnifolia</i> , X, 2 to 4 ins.	.12	...
<i>Calycanthus floridus</i> , adig., 6 to 10 ins.	.04	...
<i>Celtis occidentalis</i> , adig., 3 to 12 ins.	.04	...
<i>Chamaecyparis filifera</i> , 4 to 6 ins.	.18	...
<i>Chamaecyparis filifera aurea</i> , X, 5 to 8 ins.	.18	.15
<i>Chamaecyparis lawsiana</i> , adig., 3 to 8 ins.	.04	.03
<i>Chamaecyparis lawsiana alium</i> , X, 4 to 6 ins.	.15	.13
<i>Chamaecyparis lawsiana alium</i> , X, 6 to 9 ins.	.20	.18
<i>Chamaecyparis lawsiana pendula</i> , adig., 1-yr., 4 to 6 ins.	.05	.04
<i>Chamaecyparis plumosa</i> , X, 6 to 9 ins.	.18	...
<i>Chamaecyparis plumosa aurea</i> , X, 4 to 6 ins.	.18	.16
<i>Euonymus carrierei</i> , X, 5 to 8 ins.	.10	.08
<i>Euonymus carrierei</i> , XX, 8 to 12 ins.	.15	.14
<i>Euonymus colchicus</i> , X, 3 to 8 ins.	.08	.07
<i>Euonymus fortunei smetana</i> , X, 4 to 8 ins.	.10	.08
<i>Euonymus patens</i> , X, 4 to 8 ins.	.10	.08
<i>Ilex crenata</i> , X, 4 to 8 ins.	.17	.16
<i>Ilex crenata bullata</i> , XX, 4 to 6 ins.	.17	...
<i>Ilex rotundifolia</i> , XX, 4 to 6 ins.	.18	.17
<i>Juniper, Andorra</i> , X, 6 to 9 ins.	.17	.16
<i>Juniper, Andorra</i> , XX, 6 to 9 ins.	.24	.23
<i>Juniperus chinensis pfitzeriana</i> , Hill's Golden, X, 4 to 6 ins.	.22	.20
<i>Juniperus chinensis pfitzeriana</i> , X, 5 to 8 ins.	.18	.17
<i>Juniperus glauca hetzii</i> , X, 4 to 6 ins.	.13	.12
<i>Juniperus glauca hetzii</i> , X, 6 to 10 ins.	.18	.17
<i>Juniperus horizontalis glauca</i> , X, 6 to 10 ins.	.18	.16
<i>Juniper, Irish</i> , X, 4 to 6 ins.	.14	.13
<i>Larix eurolea</i> , adig., 1-yr., 2 to 5 ins.	.08	.07
<i>Leucothoe catenata</i> , X, 2 to 4 ins.	.12	.11
<i>Pieris floribunda</i> , X, 3 to 5 ins.	.18	.17
<i>Pieris japonica</i> , XX, 5 to 8 ins.	.45	.40
<i>Pieris mariana</i> , XX, 8 to 12 ins.	.30	...
<i>Pinus nigra</i> , adig., 1-yr., 2 to 4 ft.	.04	.03
<i>Poplar, Lombardy</i> , 2-yr., 2 to 4 ft.	.08	.06
<i>Rhododendron hybrids</i> , field-grown stock,		
XX, 4 to 6 ins.	.35	.28
XX, 6 to 9 ins.	.65	.55
XXX, 9 to 12 ins.	.85	.70
<i>Taxus capitata</i> , X, 4 to 6 ins.	.14	.13
X, 6 to 8 ins.	.18	.17
XX, 4 to 6 ins.	.18	.17
<i>Taxus cuspidata</i> , X, 4 to 6 ins.	.13	.12
X, 6 to 8 ins.	.18	.17
XX, 4 to 6 ins.	.18	.17
XX, 6 to 10 ins.	.25	...
<i>Thuja elegantissima lutea</i> , XX, 4 to 6 ins.	.18	.17
<i>Thuja elegantissima lutea</i> , XX, 6 to 9 ins.	.22	.20
<i>Thuja ellwangeriana</i> , X, 6 to 8 ins.	.18	.15
<i>Thuja globosa</i> , X, 3 to 5 ins.	.12	.11
X, 5 to 8 ins.	.17	.16
XX, 6 to 9 ins.	.22	.20
<i>Viburnum opulus nana</i> , X, 2-yr., 2 to 5 ins.	.10	.09

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HARMONY, PA.

be applied have been used. Most operators advocate one pound of 7-6-5 per inch of trunk circumference. August Beilmann, manager of the arboretum at Missouri Botanical Garden, Gray Summit, recommends an application in pounds of 10-8-6 equal to the circumference of the tree in inches, plus the height in feet, plus the spread in feet. Mr. Armstrong thinks that the best amount lies somewhere between these two figures.

Our fund of ignorance greatly exceeds our knowledge, he continued. We should study more, observe and keep accurate records of our results. We should learn what soils and other conditions are most favorable to each species of tree and try to create those conditions. We should always make a soil analysis, and reduce the guess-work as much as possible. Testing for pH and correcting for it should be the first step in any feeding operation. Mr. Armstrong called attention to the paper on soil pH delivered by Stanley C. Foll at the twenty-fourth annual meeting of the National Shade Tree Conference at Milwaukee in 1948.

Our definite information is so meager that we should use all of it. We should think and reason, and though we still have to guess, we should check the results of our guessing and record them so that guess-work may be reduced in the future, concluded Mr. Armstrong.

D. E. E.

### CITY STREET TREES.

Speaking at the recent short course for arborists and landscape gardeners sponsored by Ohio State University, Columbus, Edward H. Scanlon, commissioner of shade trees, Cleveland, said he believes the trend in park development is away from areas for passive recreation and toward playgrounds with only an occasional tree or shrub. The principal field of horticultural embellishment of a city, therefore, will be through the medium of street trees, he said, launching into his topic, "Trees for City Streets — Program, Selection and Maintenance."

The demand for men to direct street tree programs is ever increasing, and advancement is hampered only by lack of sufficient funds, he said. The soundness of a street tree program is based on the plans for planting and the number of species and varieties employed. There are so many different site conditions that it is impossible to solve all of the planting problems by using three or four

[Continued on page 74.]



## THE NURSERY *handy* TRACTOR

The Allis-Chalmers Model B is a popular size for wide use around the nursery. Speeds range from 2.6 m.p.h. to 7.9 m.p.h. It's easy on fuel and handles a 14- or 16-inch moldboard plow, root pruner, bed cutter, transplanter, 200 to 250 gallon sprayer and other similar nursery equipment. A wide range of cultivating equipment meets every condition.

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# Plant Notes Here and There

By C. W. Wood

If Linnaeus had a 12-flowered shooting star before him when he named the genus *dodacatheon*, it is easy to understand why he dedicated it to the twelve gods, as the literature tells us. Pliny had used the name before, giving it to a primrose, which was said to be under the care of the superior gods. In either case the name is an appropriate one, either genus being worthy of the gods' attention.

Perhaps no other group of American plants (the group also slips over into Asia, but broadly speaking it is typically American, being found over much of the North American continent outside the tropical areas), unless it is *penstemon*, is so sadly neglected by gardeners of its native land. Aside from the more or less common eastern species, the shooting stars are quite unknown here, the western species seldom being seen outside the plantings of specialists or, in most cases, not being known at all.

The botanist Gray, I think it was, maintained at one time that all *dodecatheons* belonged to one polymorphic species; Pax and Knuth recognized thirty distinct species; others admit even more. In any case, they are so variable, even within the recognized species, that it is little wonder that we of the gardening fraternity are hazy in our nomenclature.

Just because *D. meadia* may be white or purple, or any one of a myriad shades between those two colors, is no reason why we cannot enjoy the plant in its better forms. Nor should a lavender-colored *D. clevelandi*, which botanists tell us should be purple with a yellow base, deter anyone from growing the plant. During the years that I have gardened, I have bought close to a score of varieties either in seeds or plants, running alphabetically from *D. conjugens* to *D. poeticum*, and few, if any, have met the botanists' descriptions. But that made little difference to me as a gardener, for they were nearly all lovely enough to entitle them to a place in the garden. If one enters into a *dodecatheon* adventure in that spirit, he is sure to accumulate a lot of good garden material which should meet with ready sale, and, incidentally, he will have a joyous time doing it. On the other hand, if he goes about the task with one eye on what botanists have written about these plants, he is letting himself in for a bad headache.

Finally, comes the fun of propagating, which may be accomplished by means of seeds, division or root cuttings. The first of these methods, the favorite pastime of most beginners and not a few of us old-timers, is the least desirable when true-to-color plants are wanted, though it must be said that it has the advantage of being fairly rapid and not too difficult. According to my experience, best results follow from planting fresh seeds in an outdoor frame, spacing seeds so the little plants will not have to be disturbed during their first season of growth. Little top growth is made the first year, and heavy losses often follow the handling of the plants the first year.

Let us suppose that one has an extra-good form, perhaps one of surpassingly beautiful color, which is

not rare among seedlings, that he wants to multiply. Two methods, division and cutting, are open to him, the first being of rather limited usefulness to him because of its slowness of increase, while the latter, although perhaps a little more difficult, is almost limitless in its possibilities. Division, which is the method of propagation used with shooting stars just as it is in other cases of perennial root systems, may be done in spring or early autumn, preferably the latter, according to my experience, unless the spring work

## MAGNOLIAS

For spring delivery we offer Magnolia grafts from 2 1/4-in. pots, \$75.00 per 100; \$70.00 per 100 in lots of 500 or over.

### Varieties:

*Magnolia lennei*, *soulangeana*, *soulangeana Nigra*, *stellata*, *stellata* Water Lily, *rustica rubra*.

Well established cuttings from 2 1/4-in. pots, \$15.00 per 100.

*Chamaecyparis plumosa aurea*

*Juniperus sabina*

*Juniperus hibernica*

*Taxus baccata repandens*

*Taxus cuspidata*

*Taxus cuspidata nana*

*Taxus media spreading*

*Taxus media cliftoni*

*Taxus media hatfieldi*

*Taxus media henryi*

*Taxus media Moon's columnaris*

*Taxus media Vermeulen*

*Taxus media hicksii*

*Thuja occ. nigra*

*Thuja occ. lutea* Mary Corey

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### Immediate Bargains in Fine

#### TAXUS Twice transplanted in field. Bushy.

	Per	Per
Upright,	100	1000
8 to 12 ins....	\$45.00	\$400.00
12 to 15 ins....	50.00	450.00

#### Spreading,

8 to 12 ins.... 45.00 400.00

Hicks', 9 to 12 ins. 45.00 400.00

#### SPECIAL Good selling but 2000 surplus.

*Chinese Chestnut*, 3 to 5 ft., transplanted, branched. For immediate retail sales. Vigorous, plump.

25 or more at \$50.00 per 100.

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**NURSERY** New York, N. Y.  
**SERVICE** (Est. 1878)

### GROUND COVER PLANTS

*Pachysandra terminalis*, Per 100 Per 1000

Assorted field-grown plants ..... \$ 6.00 \$50.00

*Vinca minor*, 2 1/4-in. pot-grown plants ..... 10.00 90.00

*Hedera helix*, 2 1/4-in. pot-grown plants ..... 10.00 85.00

*Hedera helix baltica*, 2 1/4-in. pot-grown plants ..... 10.00 85.00

**HUGH B. BARCLAY** 10.00 85.00

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## NORTHERN GROWN PLANTS

FRUIT TREES • SMALL FRUITS • SHRUBS • ROSES • ORNAMENTALS

### RED RASPBERRIES

	Per 100	Per 1000
Chief 1/4-in. cal. and up	\$6.50	\$55.00
No. 1, 3/16-in.	5.50	45.00
Indian Summer		
Transplants	8.00	70.00
1/4-in. cal. and up	7.50	65.00
No. 1, 3/16-in.	6.50	55.00
*Latham, transplants	7.50	
*Newburgh, 1/4-in. cal. and up	7.00	
Sunrise, No. 1, 3/16-in. cal.	5.50	45.00

\*Latham and Newburgh sold in lots of 100 only.

### BLACK RASPBERRIES

	Per 100	Per 1000
Cumberland, No. 1 tips	\$4.50	\$35.00
Logan, No. 1 tips	4.50	35.00

### BLACKBERRIES—BOYSENBERRIES—YOUNGBERRIES

	Per 100	Per 1000
Eldorado, No. 1, R. C.	\$5.00	\$40.00
Boysenberries, Thornless Transplants	13.50	125.00
Boysenberries, Thornless Tips	5.50	45.00
Youngberries, Thornless Transplants	13.50	125.00
Youngberries, Thornless Tips	5.50	45.00

### GOOSEBERRIES

	Per 100
Carrie, 1-yr., No. 1	\$20.00
Downing, 1-yr., No. 1	20.00
Pixwell	SOLD OUT FOR 1949

### GRAPES

	Per 10	Per 100	Per 1000
Bluebell 2-yr., No. 1	\$3.00	\$22.00	...
1-yr., No. 1	2.50	18.00	...
Blue Jay 2-yr., No. 1	3.00	22.00	...
1-yr., No. 1	2.50	18.00	...
Concord, 1-yr., No. 1	1.20	10.00	\$80.00
Delaware 2-yr., No. 1	1.40	13.00	120.00
1-yr., No. 1	1.30	11.00	90.00
Fredonia, 1-yr., No. 1	1.00	8.00	70.00
Moonbeam, 1-yr., No. 1	2.50	18.00	...
Niagara, 1-yr., No. 1	1.00	8.00	70.00
Portland, 1-yr., No. 1	1.30	11.00	100.00



*Andrews*

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**NURSERY**  
COMPANY

MINNESOTA

### CURRENTS

	Per 100	Per 1000
Red Lake 3-yr., No. 1	\$18.00	\$160.00
2-yr., No. 1	16.00	140.00
1-yr., No. 1	12.00	100.00

### RHUBARB

	Per 10	Per 100
Canada Red No. 1	\$3.25	\$30.00
Medium	2.75	25.00
MacDonald No. 1	2.75	25.00
Medium	2.25	20.00
Ruby Red No. 1	2.75	25.00
Medium	2.25	20.00
Valentine No. 1	5.25	50.00
Medium	4.75	45.00

### HANSEN'S BUSH CHERRIES

	Per 10	Per 100	Per 1000
3 to 4 ft., transplants	\$3.00	\$25.00	\$225.00
2 to 3 ft., transplants	2.50	20.00	150.00
18 to 24 ins., transplants	2.25	17.50	125.00
12 to 18 ins., transplants	...	8.00	75.00
2 to 3 ft., seedlings	...	8.00	75.00
18 to 24 ins., seedlings	7.50	70.00	
12 to 18 ins., seedlings	5.50	50.00	

### VINES

Clematis, heavy plants, shipped staked with 18-in. top from 3-in. pots, 50c each.

Henryi, white.

Jackmani, purple.

Lord Neville, plum-purple.

Veillard, rose.

Write for special quotations on larger quantities than those listed above.

We are in a position to quote attractive prices on the following:

Northern-grown Apple, Plum and Cherry

Shrubs, Roses, Deciduous Trees and

Deciduous Tree Seedlings.

Northern-grown Apple Seedlings

Northern-grown Plum Seedlings

# ROSES

## Two-year, field-grown

Budded on *rosa multiflora japonica*.

Graded according to the Standards of the American Association of Nurserymen.

	Per 10	Per 100	Per 1000
No. 1	\$5.50	\$50.00	\$450.00
No. 1 1/2 (Medium)	4.50	40.00	350.00

## TEA and HYBRID TEA

	No. 1	No. 1 1/2
American Beauty. Deep pink.	500	...
Ami Quinard. Dark velvety crimson.	1100	750
Betty Uprichard. Coppery-red buds.	150	150
Briarcliff. Rose-pink.	250	300
Caledonia. White.	250	...
Christopher Stone. Scarlet-crimson.	125	...
Columbia. Vivid pink.	140	300
Condessa de Sastago. Coppery-pink.	350	400
Cynthia. Soft glowing red.	250	300
Dame Edith Helen. Clear pink.	100	...
E. G. Hill. Dazzling scarlet.	350	200
Edith Nellie Perkins. Buff and coppery-pink.	150	200
Editor McFarland. Brilliant pink.	375	350
Etoile de Hollande. Brilliant red.	350	500
Frau Karl Druschki. White.	550	...
Golden Charm. Fine yellow.	800	750
Golden Dawn. Straw-yellow.	300	...
Grenoble. Scarlet-red.	1000	600
K. A. Viktoria. Snowy-white.	500	650
Königin Luise. White.	500	250
Luxembourg. Coppery-yellow.	450	...
Mrs. P. S. Du Pont. Rich yellow.	100	500
Picture. Warm pink.	300	600
Poinsettia. Deep velvety-red.	300	600
Pres. H. Hoover. Cerise-pink and yellow.	300	...
Radiance. Rose-pink.	300	...
Red Radiance. Rose-red.	200	...
Sœur Thérèse. Chrome-yellow.	450	600
Sunburst. Yellow.	600	900
Talisman. Apricot-gold and pink.	1200	...
The Doctor. Iridescent pink.	200	500
Red Talisman. Red.	400	400

## CLIMBING ROSES

Climbing Ami Quinard. Velvety crimson.	350	450
Climbing Etoile de Hollande. Brilliant red.	50	350
Climbing Radiance. Cameo-pink.	300	400
Climbing Mrs. P. S. Du Pont. Rich yellow.	250	150
Climbing Red Radiance. Rose-red.	600	150
Climbing Talisman. Apricot, gold and pink.	300	...
Dr. W. Van Fleet. Pale pink.	100	250
Mary Wallace. Pink and gold.	...	250
Paul's Scarlet. Scarlet.	...	500
Silver Moon. Silvery-white.	40	180

## POLYANTHA

Floradora.	190
Else Poulsen. Rose-pink.	80
Golden Salmon. Orange-salmon.	350
Ideal.	25
Poulsen Yellow. Copper-yellow.	25

## PACKAGED NURSERY STOCK

### For "Cash-and-Carry" Sale

For many years the WILLIS NURSERY CO. has specialized in preparing nursery stock for "cash-and-carry" trade. We were, in fact, one of the pioneers in this field, and our business has grown to such proportions that the special department we established to handle it is one of the largest in the country.

★ Roses   ★ Vines   ★ Fruit Trees   ★ Small Fruits  
★ Shrubs   ★ Shade Trees   ★ Hedge Plants   ★ Perennials

SEND FOR SPECIAL LIST

**WILLIS NURSERY CO.**

OTTAWA, KANSAS

"Your Wholesale Nurserymen"

can be done under glass before the plants commence active growth.

But propagation by root cuttings offers a more rapid means of increase, and the work is not too difficult for the novice. In using this method on shooting stars, the roots are cut off just below the crown, and the whole root is used, not pieces of the root, as in the case of hardy phlox and Oriental poppies. The roots are planted in an upright position in a frame or other place where growing conditions are under the control of the operator. After planting the roots in furrows and pressing the soil firmly around them, sift about a quarter inch of sand over the top and keep well watered until growth commences, providing shade when the sun becomes too hot. Speaking of conditions in eastern states, it may be added that all shooting stars do best in some shade, that usually referred to as dappled shade being preferred by most experienced growers, and in a soil containing a liberal amount of leaf mold.

### Hippocrepis.

Most of the horseshoe vetches that I have grown were either too tender for this climate of northern Michigan or had little garden value. The one nice exception so far has been Hippocrepis comosa, a creeping legume from central and southern Europe, where it is said to adorn dry, sunny slopes in limestone soil. In any case, it did well here under that kind of treatment, spreading out a carpet of pleasing legume foliage, over which is displayed nodding golden flowers throughout the summer. "The Encyclopedia of Horticulture" says the height is from eight to twenty inches, but that must mean the length of the prostrate stems, for it is never taller than three or four inches in this garden. It is a splendid wall plant, good for sunny dry slopes in the rock garden and for similar situations anywhere in the garden. According to the books, it may be propagated by division; personally, I have found seedage preferable.

### Lavenders.

A Minnesota reader who has had much trouble with lavenders asks for a discussion of them, not only from the standpoint of hardiness, but also from the viewpoint of garden value.

Unfortunately for us of the north, we cannot enjoy all lavenders. After many trials over the years and more disappointments than joys, a few forms of *Lavandula vera* and *L. spica* are able to survive our northern winters without too much bother.

[Continued on page 70.]



### CHAMPION DOUBLE-ACTION DUSTER

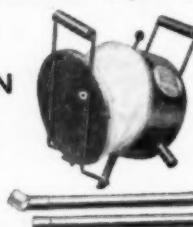
Tops in efficiency, effective dusting, ease of operation, all-around performance. Double action means continuous flow of powder whenever lever is operated . . . saves time, saves labor. All working parts fully enclosed; lead coated tank; big 10-inch hopper opening makes the Champion easy to fill and clean. Weighs 14 lbs. empty; holds 15 lbs. of powder.



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This is the big-value, long-life duster. Carried like a knapsack; easy to reach under low plants or shoot a blast of powder 30 ft. high. Ideal for spot dusting. Weighs 15 lbs. empty; holds up to 25 lbs. of powder.

### CHAMPION HAND DUSTER



Noted for its simplicity of design and easy operation . . . ideal for home and small estate gardens, experimental and show gardens. All parts enclosed; no moisture can get in to clog powder; easily adjusted from fine fog to heavy cloud. Weighs 5 lbs. empty.

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### CHAMPION KNAPSACK SPRAYER

This all-purpose, all-brass sprayer is the product of a quarter century of scientific development. Uniform pressure of 200 lbs. in the sturdy pressure chamber is pumped as needed. Hands and arms are free for other work. Weighs 14 lbs. empty; holds 4 1/4 gals.



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Boom .89 makes Champion Sprayer effective for weed control. Two Tee-jet nozzles spray 35" path wherever operator can walk. Uses only 4 gals. solution per acre.

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A portable slide sprayer of big capacity, high power and simple operation at modest cost. Sprays any kind of solution . . . ideal as extra sprayer for weed killers, disinfectants, whitewash, water paints. Weighs 12 lbs. empty.

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## Second Day of Tennessee Convention

By John Varnell, Secretary

Activities of the first day of the forty-fourth annual convention of the Tennessee State Nurserymen's Association held January 26 and 27 at the Hotel Hermitage, Nashville, were reported in the American Nurseryman for February 15.

Joseph N. Howell, landscape engineer, Knoxville, was reelected president of the association; H. R. Potter, H. R. Potter Nursery, Joelton, former chairman of the executive committee, was chosen vice-president, and John F. Varnell, Easterly Nursery Co., Cleveland, was reelected secretary-treasurer. Prof. G. M. Bentley, state entomologist and plant pathologist, was named honorary secretary-treasurer. Members elected to the executive committee included C. E. Braswell, Braswell Nurseries, Smithville, chairman; John T. Boyd, Forest Nursery Co., Inc., McMinnville, and Hubert Nicholson, Southern Nursery & Landscape Co., Winchester. Mr. Braswell and Mr. Nicholson served on the committee last year.

Approximately seventy-five persons attended the annual banquet held Wednesday evening and enjoyed music by a local orchestra. The Rev. Robert C. Jones, Fort Worth, Tex., was the speaker for the evening, and Jared Maddux, Nashville, was toastmaster.

Beginning the second day's session, Hoskins Shadow, Tennessee Valley Nursery, Winchester, discussed "Things a Fruit Grower Should Know." He pointed out that a nurseryman must deliver to his customers the trees they expected to receive when they placed the order after reading or hearing the nurseryman's advertisement. He must do this not only to protect his own name, but to uphold the reputation of the Tennessee fruit tree growers for selling quality, true-to-name trees.

Prof. G. M. Bentley spoke on the origin and accomplishments of the division of insect and plant disease control and the Tennessee State Nurserymen's Association. He has been head of the state department of entomology and plant pathology since it was created by law April 17, 1905. In the summer of that year the nurserymen of Tennessee were called together by Professor Bentley and H. A. Morgan, of the University of Tennessee. At this meeting, plans of the new entomologist were

discussed, and nurserymen were told how the new laws on plant quarantines and rules and regulations pertaining to insect pests and plant diseases would affect them. Later in the year the nurserymen met again and formed the Tennessee State Nurserymen's Association with about eleven charter members.

After Professor Bentley's talk, Robert Boyd, Boyd Nursery Co., McMinnville, spoke on the present Tennessee law on plant quarantines. In the discussion that followed, it was brought out that Tennessee nurserymen were well protected by this law, and members felt that no recommendations for new regulations were necessary. However, it was agreed that the state needed to enforce some of its present regulations more strictly. A committee was ap-

pointed to recommend to the commissioner of agriculture ways in which more efficient enforcement could be accomplished.

Richard H. Jones, Jones Ornamental Nursery, Nashville, presented to members a revised constitution and bylaws for consideration during the coming year. Final action on adoption will be taken at the 1950 convention. Knoxville was selected as the location for this meeting, which will be held during the last week of January.

BILL SMEAL, a florist at Tyrone, Pa., is adding a line of nursery stock for retail sale.

## CHINESE CHESTNUT TREES

SPECIALLY SELECTED STRAINS  
HIGHLY BLIGHT-RESISTANT  
SIMILAR TO OUR OLD MOUNTAIN CHESTNUT

	Each	Each
	per 10	per 100
2 to 3 ft.	\$0.85	\$0.70
3 to 4 ft.	1.00	.90
4 to 5 ft.	1.25	1.10
5 to 6 ft.	1.65	1.50

These are nicely rooted, and larger sizes are well branched stock that will please your customers.

Can supply in large quantities now while assortment is complete.

BOUNTIFUL RIDGE NURSERIES  
Princess Anne, Md.

## ORNAMENTAL STOCK

In Wide Assortment

Spring catalog and special low-priced list just mailed. If you did not receive your copy, please advise.

Princeton Products are  
Quality Products  
Send us your Want List.

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## QUALITY LINERS

	Per 100
American Holly 3 to 6 ins., sdqgs.	\$ 6.50
Azalea Pontica, Ghent Azalea 3 to 6 ins., trans.	15.00
Red-flowering Dogwood 10 to 15 ins., grafts (1-yr.)	65.00

Send for new Spring List.

## POSSUM HOLLOW NURSERIES

6327 Magnolia St.  
PHILADELPHIA 44, PA.

## Choice Lining-out Evergreen Stock and B&B Specimen Pines

	Per	Per		Per	Per
	100	1000		100	1000
<b>Aucuba japonica (Greenleaf Aucuba) (Female)</b>			<b>Erica mediterranea hybrida (Darley Heath)</b>		
Splendid, heavy, deep green foliage and a profusion of large, bright red berries. Robust, shade-loving evergreen to 6 feet.			This is one of the most attractive and desirable plants in its class and from early winter to late spring is covered with a profusion of lovely garnet blossoms.		
3 to 5 ins., once transplanted.....	\$ 8.00	\$ 64.00	8 to 9 ins., once transplanted.....	\$12.00	\$ 96.00
<b>Aucuba japonica (Greenleaf Aucuba) (Pollinizers)</b>			<b>Cunninghamia lanceolata (Chinese Fir)</b>		
Male plants. Aucubas never bear berries unless pollinizers are planted with them. The large red berries are one of the attractive features of Aucubas and it is therefore essential to plant the pollinizers. The foliage is the solid deep green. These will pollinate any variety.			A native of China. The foliage is green and bronze. An aristocrat.		
3 to 5 inches, once transplanted.....	\$ 8.00	\$ 64.00	4 to 6 ins., once transplanted.....	11.00	\$ 88.00
<b>Aucuba japonica nana (Dwarf Aucuba) (Female)</b>			8 to 12 ins., once transplanted.....	13.00	104.00
This is a dwarf form with lustrous green leaves and a profusion of bright scarlet berries borne in clusters making a combination of surpassing beauty.					
2 to 4 ins., once transplanted.....	\$ 8.00	\$ 64.00	<b>Euonymus japonicus microphyllus (Boxleaf Euonymus)</b>		
<b>Azalea amoena coccinea</b>			A dense, glossy leaved evergreen growing into a perfectly rounded form globe. Small, box-like foliage. Dwarf, hardy and very rare.		
A splendid dwarf evergreen azalea. Foliage dark, glossy, compact. Flowers bright red completely covering the plant.			1 to 2 ins., once transplanted.....	7.00	\$ 56.00
1 to 3 ins., once transplanted.....	\$ 10.00	\$ 80.00			
3 to 5 ins., once transplanted.....	\$ 12.00	\$ 96.00	<b>Gaultheria procumbens (Wintergreen)</b>		
<b>Azalea hinodegiri (Crimson Azalea from cuttings)</b>			This is the little plant which produces the true wintergreen flavor. Bear bright red berries in great abundance. To know this delightful little plant is to admire and love it.		
Dwarf, very compact, evergreen azalea. Heavy glossy foliage, hardy in western Oregon. When in bloom the plant is completely covered with bright red flowers.			2-year, once transplanted.....	10.00	\$ 80.00
1 to 3 ins., once transplanted.....	\$ 10.00	\$ 80.00	<b>Juniperus scopulorum (Rocky Mountain Juniper)</b>		
3 to 6 ins., once transplanted.....	\$ 13.00	\$ 104.00	The well known and justly popular Western Juniper, very hardy. Grows into beautiful specimens.		
6 to 9 ins., once transplanted.....	\$ 16.00	\$ 128.00	1 to 3 ins., not transplanted.....	5.00	\$ 40.00
9 to 12 ins., once transplanted.....	\$ 20.00	\$ 160.00	4 to 12 ins., not transplanted.....	12.00	\$ 96.00
<b>Azalea maxwellii (Maxwell Azalea)</b>			3 to 5 ins., once transplanted.....	9.00	\$ 72.00
Foliage heavy and luxuriant. Plant rather low-growing and spreading. Flowers extremely large, carmine-red, completely covering the plant. One of the finest of all azaleas.					
1 to 3 ins., once transplanted.....	\$ 10.00	\$ 80.00	<b>Mahonia nervosa (Longleaf Hollygrape)</b>		
3 to 6 ins., once transplanted.....	\$ 13.00	\$ 104.00	Plants grow 12 to 18 inches tall. The leaves which are 12 to 16 inches long are beautifully fern-like in form. Flowers are bright golden-yellow, followed by bunches of bright blue, grape-like fruit. The foliage is dark green turning to most beautiful shades of brilliant red and bronze in the fall.		
6 to 9 ins., once transplanted.....	\$ 16.00	\$ 128.00	5 to 8 ins., not transplanted.....	10.00	\$ 80.00
9 to 12 ins., once transplanted.....	\$ 20.00	\$ 160.00	4 to 8 ins., once transplanted.....	11.00	\$ 88.00
<b>Sherwood Orchid Azalea</b>					
This is a hybrid hinodegiri and our own introduction. We have been growing it for several years in our nursery where it has attracted much attention. Flowers are a clear lavender with speckled throat.			<b>Osmanthus delavayi (Delavay Osmanthus)</b>		
1 to 3 ins., once transplanted.....	\$ 10.00	\$ 80.00	An irregular shrub to 6 feet. Flowers white, tiny resembling miniature honeysuckle blooms, with wonderful fragrance. Hardy.		
3 to 6 ins., once transplanted.....	\$ 13.00	\$ 104.00	2 to 5 ins., once transplanted.....	11.00	\$ 88.00
6 to 9 ins., once transplanted.....	\$ 16.00	\$ 128.00			
9 to 12 ins., once transplanted.....	\$ 20.00	\$ 160.00	<b>Picea pungens glauca (Colorado Spruce)</b>		
<b>Sherwood Red Azalea</b>			The color effect ranges from green to silvery blue. A very handsome and a very hardy tree of symmetrical habit of growth.		
A magnificent azalea. Compact, dwarf and evergreen. Foliage very glossy it shines, bright green turning in cold weather to a fiery red. Flowers are brilliant blood-red.			2 to 6 ins., once transplanted.....	8.00	\$ 64.00
1 to 3 ins., once transplanted.....	\$ 12.00	\$ 96.00	<b>Pinus aristata (Bristlecone Pine)</b>		
3 to 5 ins., once transplanted.....	\$ 15.00	\$ 120.00	Slow growing and rather dwarf. A handsome low shrub with a picturesque and irregular habit of growth.		
			3 to 6 ins., once transplanted.....	9.00	\$ 72.00
<b>Castanopsis sempervirens (Bush Chingapin)</b>			<b>Spartium junceum (Weavers Broom) (Spanish Broom)</b>		
One of Oregon's wonderful native evergreens seldom offered to the trade. A plant 6 feet high, foliage very dense, leaves dark green above, russet beneath. flowers in white clusters followed by chestnut-like fruits.			Upright shrub growing to a height of 10 feet or more. Fragrant bright yellow flowers are borne in large terminal racemes. Hardy as far north as Philadelphia.		
6 to 12 ins., once transplanted.....	\$ 16.00	\$ 128.00	6 to 12 ins., not transplanted.....	8.00	\$ 64.00
12 to 18 ins., once transplanted.....	\$ 20.00	\$ 160.00	12 to 18 ins., not transplanted.....	10.00	\$ 80.00
<b>Cotoneaster francheti (Franchet Cotoneaster)</b>			<b>Tsuga canadensis (Canada Hemlock)</b>		
Generally recognized as one of the most graceful and ornamental of all cotoneasters.			The well known conifer of graceful, pleasing habit of growth, and regarded by some landscape architects as one of the best of conifers. Perfectly hardy.		
6 to 12 ins., once transplanted.....	\$ 13.00	\$ 104.00	12 to 18 ins., twice transplanted (field grown)....	22.00	176.00
12 to 18 ins., once transplanted.....	\$ 16.00	\$ 128.00	18 to 24 ins., twice transplanted (field grown)....	28.00	224.00
<b>Cotoneaster frigida (Himalayan Cotoneaster)</b>					
Fine, hardy evergreen shrub growing to 20 feet and bearing an enormous display of large clusters of scarlet berries all along the stems.			<b>Tsuga heterophylla (Western Hemlock)</b>		
6 to 12 ins., once transplanted.....	\$ 13.00	\$ 104.00	The Western Hemlock is very similar to <i>Tsuga canadensis</i> . Grows to about the same form and height and has the same characteristically graceful branch tips.		
12 to 18 ins., once transplanted.....	\$ 16.00	\$ 128.00	12 to 18 ins., once transplanted.....	18.00	144.00
			18 to 24 ins., once transplanted.....	24.00	192.00
<b>Cotoneaster horizontalis (Rock Cotoneaster)</b>			<b>Teucrium chamaedrys prostratum (Dwarf Germander)</b>		
Well known and deservedly a great favorite.			A low growing form spreading into a dense mat 6 inches high. Foliage dark green, flowers lavender.		
2 to 6 ins., not transplanted.....	\$ 8.00	\$ 64.00	1-year, once transplanted.....	7.00	\$ 56.00
6 to 12 ins., not transplanted.....	\$ 12.00	\$ 96.00			
<b>Cotoneaster parneyi (Parney Cotoneaster)</b>			<b>Fine B&amp;B Specimen Stock</b>		
This is probably the best of the upright cotoneasters. Bear berries of brilliant red luster and in almost unbelievable profusion.					
6 to 12 ins., once transplanted.....	\$ 13.00	\$ 104.00	<b>Pinus mughus compacta (Mugho Pine)</b>		
12 to 18 ins., once transplanted.....	\$ 16.00	\$ 128.00	A dense, stout dwarf evergreen, of unquestionable hardiness. Our trees are grown from selected seeds of the best type and are of very uniform quality.		
6 to 12 ins., twice transplanted (field grown)....	\$ 18.00	\$ 144.00	15 to 18 ins., three times transplanted, B&B.....	\$12.60	\$113.00
12 to 18 ins., twice transplanted (field grown)....	\$ 22.00	\$ 176.00	18 to 24 ins., three times transplanted, B&B.....	14.90	134.00
<b>Cistus laurifolius (Laurel Rockrose)</b>			All of the above grades are sheared specimens. They are superb.		
Upright shrub, growing to a height of 4 to 6 feet. Has thick, heavy, soft green leaves. It blooms from June to August with waxy, white flowers 2 to 3 inches in diameter. Rare.			<b>Pinus tabulaeformis (Chinese Pine)</b>		
2 to 6 ins., once transplanted.....	\$ 7.00	\$ 56.00	A medium-sized conifer. The dense foliage is a distinctive and decidedly pleasing shade of green.		
6 to 12 ins., once transplanted.....	\$ 9.00	\$ 72.00	Its general effect is just right. Hardy into New England.		
			18 to 24 ins., three times transplanted, B&B.....	9.00	\$ 81.00
Car rates on application.			24 to 30 ins., three times transplanted, B&B.....	13.50	122.00
Terms: Cash. No packing charge. 25% reserves order. Prices on lining-out stock include delivery to any point in the United States or Canada.			30 to 36 ins., three times transplanted, B&B.....	17.10	154.00

## SHERWOOD NURSERY CO. 141 S. E. 65th Ave., PORTLAND, OREGON

Leading evergreen propagators of the Pacific Coast.

Use letterhead or license number when writing for 1949 Wholesale List.



## WANT LIST

We are in need of the following list of stock. Please quote your best prices and specify quantities on all items you can furnish.

- 800 **5-N-1 Apple**, 11/16-in.
- 600 **Windsor Cherry**, 1-yr., 7/16-in.
- 300 **Goldenrod Plum**, 11/16-in.
- 2000 **Privet, Ibota**, 15 to 18 ins. and 18 to 24 ins.
- 500 **Mountain Ash**, 5 to 6 ft. and 6 to 8 ft.
- 200 **Pin Oak**, 6 to 8 ft.
- 100 **Poplar, Bolleana**, 6 to 8 ft.
- 1500 **Cydonia Japonica**, 18 to 24 ins. and 2 to 3 ft.
- 400 **Deutzia Gracilis Rosea**, 15 to 18 ins.
- 1000 **Euonymus Alatus**, 18 to 24 ins.
- 2500 **Euonymus Alatus Compactus**, 15 to 18 ins.
- 1500 **Euonymus Patens**, 15 to 18 ins. and 18 to 24 ins.
- 500 **Golden Ninebark**, 2 to 3 ft.
- 2000 **Hydrangea Arborescens**, 2 to 3 ft.
- 400 **Hydrangea P. G.**, Tree, 3 to 4 ft.
- 2000 **Kerria Japonica Pleniflora**, 18 to 24 ins. and 2 to 3 ft.
- 2000 **Ligustrum Lucidum Compactum**, 18 to 24 ins.
- 2000 **Ligustrum Japonicum**, 2 to 3 ft.
- 1500 **Lilac, Red**, single and double, 18 to 24 ins. and 2 to 3 ft.
- 5000 **Privet, Regel**, 18 to 24 ins.
- 500 **Rhodotypos Kerrioides**, 18 to 24 ins.
- 300 **Viburnum Carlesii**, 15 to 18 ins.
- 400 **Viburnum Opulus**, 2 to 3 ft.
- 100 **Viburnum Opulus Nana**, 10 to 12 ins.
- 500 **Viburnum Toomentosum**, 2 to 3 ft.
- 2500 **Weigela, Variegated**, 18 to 24 ins.
- 1000 **Clematis Jackmani**, 3-in. pots.

### ROSES, NO. 1

- 500 **Cecile Brunner**
- 500 **Perle d'Or**
- 2000 **Cinnabar**
- 2000 **Floradora**
- 2000 **Dagmar Spaeth**
- 2000 **Katherina Zeimet**
- 4000 **Gruss an Aachen**
- 2000 **Mrs. R. M. Finch**
- 1500 **Rose Elfe**
- 2000 **Red Lafayette**
- 1000 **Miss Edith Cavell**
- 1000 **Ideal**
- 2000 **Triomphe d'Orléanais**
- 5000 **Golden Salmon**
- 1000 **Gloire du Midi**
- 1500 **Smiles**
- 500 **Pinocchio**
- 1000 **Condesa de Sastago**
- 2000 **Mme. Joseph Perraud**
- 1000 **Golden Rapture**
- 1000 **Sœur Thérèse**

**C. W. STUART & CO.**  
NEWARK, N. Y.

### RED JAPANESE BARBERRY, 2-year Seedlings

6 to 9 ins., 9 to 12 ins., 12 to 18 ins., branched stock.

When this 2-yr. stock is worked out, Red Barberry will not be in surplus.

Send us a list of your needs for quotations.

**FAIRVIEW EVERGREEN NURSERIES, Fairview, Pa.**

## OBITUARY

### Theodore Wirth.

Theodore Wirth, 85, founder and long-time superintendent of the Minneapolis park system and twice president of the American Institute of Park Executives, died in a hospital at La Jolla, Calif., January 29. He was also president of the Society of American Florists in 1914 and a former director and president of the Minnesota State Florists' Association. Mr. Wirth had moved to California from Minnesota with his wife last September.

Born at Winterthur, Switzerland, Mr. Wirth studied horticulture and became a professional gardener, working in several European countries. He came to the United States in 1888. Shortly after his arrival, Mr. Wirth became an employee of the New York park department and later was commissioned to improve several private estates on Long Island, in Connecticut and along the Hudson river.

In 1896 Mr. Wirth was appointed superintendent of parks at Hartford, Conn., and completed the city's park system in ten years. He designed and established Elizabeth park there, including in it a rose garden which is considered one of the finest of its kind.

He went to Minneapolis in 1905 and became superintendent of parks. While working in that city, he planned and carried out many improvements, enlarging the park system from 1,810 to 3,710 acres of land. In 1935 he retired, but continued as superintendent emeritus.

Surviving is his widow, Mrs. Leonie Mense Wirth.

### Martin L. Tippin.

Martin L. Tippin, 67, superintendent of the nursery department for the State Nursery & Seed Co., Helena, Mont., died in January in St. Peter's hospital, Helena, following a short illness.

Born September 5, 1881, at Marshfield, Mo., Mr. Tippin moved to Helena in 1938 from Villa Park, Ill., where he had been associated with the Pfund-Bell Nursery Co., Elmhurst. He also served as superintendent and propagator for the Whiting Nursery Co., Yankton, S. D.; the Holsinger Nursery Co., Kansas City, Kan.; the Toppenish Nursery Co., Toppenish, Wash., and the Rogers Nursery Co., Rogers, Ark.

Survivors include his widow; two daughters, Marie, Helena, and Mrs. Irene Williams, Seattle, Wash.; a

# MICHIGAN GLADIOLUS BULBS

HIGH CROWNED, UP TO SIZE. FREE FROM DISEASE AND THrips.

All prices per 1000. 250 of a variety at 1000 rate.  
Less than 250 of a variety, add 10% to 1000 rate.

## PINK, SALMON and ROSE SHADES

	No. 1	No. 2	No. 3
	1 1/2-in.	1 1/4-in.	1 to up
Avalon. Rose-pink, cream throat.	\$35.00	\$30.00	\$25.00
Bagdad. Smoky old rose.	30.00	25.00	20.00
Camellia. Late, light pink.	20.00	15.00	
Early Rose. Deep rose.	30.00	25.00	20.00
Jeanie. Rich pink, cream throat.	25.00	20.00	15.00
Lulu Hunt. Geranium-pink.	25.00	20.00	15.00
Margaret Fulton. Coral-pink.	25.00	20.00	15.00
Pride of Wanaka. Old rose.	25.00	20.00	16.00
Picardy. Salmon-pink	25.00	20.00	16.00
Rosa Van Lima. Light pink.	30.00	25.00	20.00
Rose Defiance. Deep pink.	40.00	35.00	30.00

## WHITE and CREAM SHADES

	20.00	15.00
Bob White. Late white.	20.00	15.00
Corona. Creamy white with rose edge.	35.00	30.00
Casablanca. Ruffled white.	40.00	35.00
June Bell. White, bell-shaped flower.	35.00	30.00
Margaret Beaton. White with red blotches.	30.00	25.00
Silentium. Creamy white, carmine marking.	25.00	20.00
Snow Princess. Excellent white.	25.00	20.00
Wanda. Rich cream sport of Picardy.	30.00	25.00

## BLUE and PURPLE SHADES

	80.00	70.00	60.00
Abu Hassan. Deep violet-blue.	80.00	70.00	60.00
Blue Beauty. Light blue.	35.00	30.00	
Paul Rubens. Light purple. New.	70.00	60.00	45.00
Purple Supreme. Deep purple.	50.00	40.00	35.00

## TUBEROUS-ROOTED BEGONIAS

Belgian-grown. An old favorite with pot plant growers, now becoming increasingly popular as a bedding plant. Try them in plant bands or 3-inch pots for sale as bedding plants, and see how they go.

Colors available: Scarlet, Yellow, Orange, Salmon, White, Crimson, Copper, Rose and Mixed. 250 or more at the 1000 rate.	Per 100	Per 1000
Double (Camellia) or single types	Per 100	Per 1000
1 to 1 1/2-in.	\$ 4.00	\$ 30.00
1 1/4 to 1 1/2-in.	7.50	60.00
1 1/2 to 2 -in.	9.50	80.00
2-in. and up.	14.00	125.00

## AMARYLLIS

Giant American Hybrids. Mixed colors only.

	Per 100	Per 1000
2 1/4 to 2 1/2-in.	\$13.00	\$120.00
2 1/2 to 2 3/4-in.	15.00	140.00
2 3/4 to 3 -in.	20.00	175.00
3 to 3 1/4-in.	30.00	275.00
3 1/4 to 3 1/2-in.	37.50	350.00
3 1/2-in. and up.	45.00	400.00

250 or more at the 1000 rate.

## FANCY-LEAVED CALADIUMS

Used extensively as a pot plant. Can also be used in combinations, and for bedding purposes if there is adequate shade. Firm, sound bulbs. Well eyed.

Mixed varieties	Per 100	Per 1000
Named varieties	\$16.00	\$140.00

250 or more at 1000 rate.

## BLEEDING HEARTS

*Dielytra spectabilis*. True old-fashioned type. Our divisions are frost-ripened, and suitable for forcing. We recommend the smaller divisions for Cloverset pots and sale for bedding purposes.

Per 100	Per 1000	
3 to 5 eyes.	\$30.00	\$260.00
5 to 8 eyes.	40.00	360.00

250 or more at the 1000 rate.

TERMS: 2% 10 days; 30 days net, if credit is established. Cash with order earns 3% discount. F.O.B., Detroit.

**GROWERS EXCHANGE, INC.**

## Quantity Discount on Gladioli:

If order totals \$ 250.00, deduct 5% from following prices.  
If order totals \$ 500.00, deduct 7% from following prices.  
If order totals \$1000.00, deduct 10% from following prices.

## RED and MAROON SHADES

No. 1	No. 2	No. 3
1 1/2-in.	1 1/4 to 1 to up	1 1/2-in. 1 1/4-in.
Beacon. Red with yellow base.	\$25.00	\$20.00
Excellence. Deep red.	20.00	15.00
Flaming Sword. Brick-red.	25.00	20.00
Majuba. Deep red.	50.00	40.00
Mrs. Mark's Memory. Wine-red.	40.00	35.00
Mansoor. Dark purple-red.	60.00	40.00
New Europe. Large, scarlet-red.	30.00	25.00
Red Fox. Blood-red.	30.00	25.00
Stop Light. Ruffled, clear red.	40.00	35.00
Tokon. Flame-salmon.	25.00	20.00

## ORANGE and YELLOW SHADES

	25.00	20.00
Bit O' Heaven. Orange.	25.00	20.00
Gold Dust. Deep yellow. Early.	25.00	20.00
Gate of Heaven. Deep yellow.	25.00	20.00
Primrose Princess. Light yellow.	25.00	20.00
Yellow Harold. Deep yellow, carmine in throat.	40.00	35.00
Florists' Mixture. Best cut flower varieties.	25.00	20.00

## PACKAGED GLADIOLI FOR COUNTER SALES

Each carton has attractive colored picture and planting instructions. 12 bulbs per carton. Mixed colors. 1 1/4-in. and up. Price: \$37.00 per 100 cartons

## IMPORTED JAPANESE LILIES

	Per 100	Per case
Rubrum. 7 to 9-in., 250 to case.	\$33.00	\$77.00
8 to 9-in., 200 to case.	35.00	65.00
9 to 10-in., 140 to case.	38.00	50.00
9 to 11-in., 125 to case.	43.00	50.00
10 to 11-in., 100 to case.	43.00	
11 to 13-in., 90 to case.	43.00	
Auratum. 8 to 9-in., 200 to case.	35.00	65.00
9 to 10-in., 140 to case.	40.00	52.50
11 to 13-in., 90 to case.	40.00	

## LILUM REGALE

American-grown

	Per 100	Per case
4 to 5-in., 750 per case.	\$ 5.00	\$37.50
5 to 6-in., 500 per case.	6.50	30.00
6 to 7-in., 250 per case.	9.50	22.00
7 to 8-in., 250 per case.	12.00	27.00
8 to 9-in., 200 per case.	16.00	30.00

## CANNAS

Northern-grown. Strong divisions.

City of Portland. Pink.	
King Humbert. Red, bronze foliage.	
Yellow King Humbert. Yellow, green foliage.	
The President. Scarlet. Green foliage.	

\$6.00 per 100. \$55.00 per 1000.

250 or more at 1000 rate.

## DAHLIAS

A special collection of 100 strong divisions, at least 10 varieties. We have selected varieties that are good cut-flower producers, and that can stand dry, hot weather. Delivery now or later.

COLLECTION "D": 100 Dahlias, Assorted.

Price: \$27.50 per collection.

COLLECTION "E": 100 Dahlias, Assorted.

Packed in Cellophane and Peat for Counter Sales.

Price: \$17.50 per collection.

BOX 35, BRIGHTMOOR STATION  
DETROIT 23, MICHIGAN

**WHOLESALE PRICE LIST**  
**SLATTON NURSERY CO.**  
 McMinnville, Tennessee

<b>TWO-YEAR CHERRY (Sour).</b>	Per 100	<b>RED NECTARINES.</b>	Per 100
1-in. and up, well br.....	\$70.00	7/16 to 9/16-in.....	\$35.00
11/16 to 1-in., well br.....	65.00	5/16 to 7/16-in.....	30.00
9/16 to 11/16-in., well br.....	60.00	2 to 3 ft., under 5/16-in.....	20.00
7/16 to 9/16-in., well br.....	55.00		
5/16 to 7/16-in., well br.....	40.00		
Varieties: Montmorency, Early Richmond.		<b>FIGS.</b>	
		2 to 3 ft.....	25.00
<b>TWO-YEAR CHERRY (Sweet).</b>		Varieties: Brown Turkey.	
1-in. and up, well br.....	80.00		
11/16 to 1-in., well br.....	70.00	<b>BLACK WALNUTS.</b>	
9/16 to 11/16-in., well br.....	65.00	3 to 4 ft.....	9.00
7/16 to 9/16-in., well br.....	60.00	2 to 3 ft.....	7.00
5/16 to 7/16-in., well br.....	45.00	18 to 24 ins.....	5.00
Varieties: Black Tartarian, Gov. Wood.			
<b>ONE-YEAR CHERRY (Sour).</b>		<b>PRUNUS NEWPORT.</b>	
11/16 to 1-in., well br.....	65.00	Purpleleaf Plum.	
9/16 to 11/16-in., well br.....	60.00	4 to 5 ft.....	55.00
7/16 to 9/16-in., well br.....	50.00	3 to 4 ft.....	50.00
5/16 to 7/16-in., well br.....	35.00		
Varieties: Montmorency, Early Richmond.		<b>RED-FLOWERING PEACH.</b>	
		4 to 5 ft.....	45.00
<b>ONE-YEAR CHERRY (Sweet).</b>		3 to 4 ft.....	40.00
11/16 to 1-in., partly br.....	70.00		
9/16 to 11/16-in., partly br.....	65.00	<b>WHITE-FLOWERING DOGWOOD.</b>	
7/16 to 9/16-in., partly br.....	55.00	Purpleleaf Plum.	
5/16 to 7/16-in., partly br.....	40.00	4 to 5 ft.....	45.00
Varieties: Black Tartarian, Gov. Wood.		3 to 4 ft., well br.....	40.00
<b>APRICOT.</b>			
9/16 to 11/16-in.....	40.00	<b>SILVER MAPLE.</b>	
7/16 to 9/16-in.....	35.00	4 to 5 ft., tr.....	25.00
Varieties: Moorpark, Superb.		3 to 4 ft., tr.....	20.00
<b>PLUM.</b>			
9/16 to 11/16-in.....	50.00	<b>TULIP TREE.</b>	
7/16 to 9/16-in.....	45.00	5 to 6 ft., tr.....	50.00
Varieties: Abundance, Burbank.		4 to 5 ft., tr.....	45.00
<b>PEACH, ONE-YEAR.</b>		3 to 4 ft., tr.....	40.00
11/16-in. and up.....	30.00	2 to 3 ft., tr.....	35.00
9/16 to 11/16-in.....	25.00		
7/16 to 9/16-in.....	20.00	<b>SILVER MAPLE.</b>	
5/16 to 7/16-in.....	15.00	4 to 5 ft., tr.....	25.00
2 to 3 ft., under 5/16-in.....	10.00	3 to 4 ft., tr.....	20.00
Varieties: Elberta, J. H. Hale, Golden Jubilee, Red Bird, Halehaven, Rochester, Belle of Georgia.			
<b>APPLE, ONE-YEAR.</b>		<b>TULIP TREE.</b>	
3 to 4 ft.....	30.00	5 to 6 ft., tr.....	50.00
2 to 3 ft.....	25.00	4 to 5 ft., tr.....	45.00
Varieties: Dbl. Red Del., Rome Beauty, Yellow Del., Stayman Winesap, Yellow Transparent, Red Jonathan, McIntosh Red.		3 to 4 ft., tr.....	40.00
<b>5-N-1 APPLE.</b>		2 to 3 ft., S. liners.....	2.50
11/16-in.....	75.00	18 to 24 ins., S. liners.....	2.00
9/16-in.....	65.00	12 to 18 ins., S. liners.....	1.50
<b>PEAR.</b>			
9/16 to 11/16-in.....	45.00	<b>FLOWERING CRAB.</b>	
7/16 to 9/16-in.....	40.00	Malus Floribunda Purpurea, purplish-red.	
Varieties: Bartlett.		Malus Purpurea Eleyi, red.	
<b>GRAPES.</b>		5 to 6 ft.....	80.00
Concord, 2-yr.....	12.50	4 to 5 ft.....	75.00
Niagara, white, 2-yr.....	12.50		
		<b>CRAPE MYRTLE</b> , pink and red.	
		18 to 24 ins., tr.....	25.00
		<b>HYDRANGEA PEEGEE.</b>	
		2 to 3 ft., tr.....	35.00
		18 to 24 ins., tr.....	30.00
		12 to 18 ins., tr.....	25.00
		<b>SPIRAEA VANHOUTTEI.</b>	
		2 to 3 ft.....	7.50
		18 to 24 ins.....	6.50
		12 to 18 ins. (Hedging grade)	5.50
		9 to 12 ins. (Hedging grade)	4.00
		<b>ALTHAEA</b> , bush form, pink and red.	
		3 to 4 ft., tr.....	20.00
		2 to 3 ft., tr.....	18.00
		18 to 24 ins., tr.....	12.50
		<b>LOCUST.</b> Moss Locust.	
		2 to 3 ft.....	15.00
		3 to 4 ft. (tree form), br.....	20.00
		<b>PRIVET, AMUR RIVER NORTH.</b>	
		Ligustrum Amurense. Per 1000	
		18 to 24 ins.....	\$40.00
		12 to 18 ins.....	25.00
		<b>WISTARIA SEEDLINGS.</b>	
		Grafting size .....	45.00

*"A friendly, efficient sales service"*

**E. D. ROBINSON**

**SALES AGENCY**  
 38 So. Elm St. P. O. Box 285  
**WALLINGFORD, CONN.**

Representing

Adams Nursery, Inc.  
 Bristol Nurseries, Inc.  
 Barnes Brothers Nursery Co., Inc.  
 North-Eastern Forestry Co., Inc.  
 A. N. Pierson, Inc.

A complete line of well grown hardy plant material  
 Evergreens and Lining-out Stock

**GRAPEVINES, CURRANTS, GOOSEBERRIES and BERRY PLANTS.**

All varieties of Small Fruit Plants  
 drastically reduced. Write for special  
 quotations on quantity lots.

**WEST HILL NURSERIES**

Established in 1875 FREDONIA, N. Y.

son, Clifford, Chattanooga, Tenn.; a sister, a grandchild and a great grandchild.

**Davenport Guerry.**

After a long illness, Davenport Guerry, 68, Davenport Ornamental Nursery, Macon, Ga., died January 15 at a local hospital.

Mr. Guerry was the son of the late Judge Dupont Guerry, who was president of Wesleyan College, Macon, and judge of Macon city court for several years. A graduate of the law school at Mercer University, Macon, Mr. Guerry practiced law in that city until he entered the army during World War I. He served as a captain.

Mr. Guerry was a member of the Southern Nurserymen's Association, Kappa Alpha fraternity and the Macon Rotary Club.

Surviving are his widow, Mrs. Marie Brevard Guerry; a son, Dr. Davenport Guerry, of the University of Pittsburgh, two sisters and a brother.

**C. L. Hoevet.**

C. L. Hoevet, proprietor of Hoevet & Sons, Fairfield, Neb., died January 14 after a long illness. A lifelong resident of Clay county, Neb., Mr. Hoevet had carried on a dairy business in connection with his nursery and landscaping service.

Surviving are his widow, Mrs. Maggie Hoevet; two daughters, Rose, Hot Springs, S. D., and Mrs. Merna Wiesheimer, Burchard, and five sons, Charles, of Denton, Tex.; Claire, of Austin, Tex.; Leo, Chadron, Neb.; Rex, of Omaha, and Harold, of Fairfield. One son, Deas, was killed during World War II.

**Nelson J. Kemp.**

Nelson J. Kemp, 73, manager and founder of the Kemp Mfg. Co., Erie, Pa., died February 4 at his home at Erie as a result of a heart attack. He had been active in his business until a few days before his death.

Mr. Kemp, who recently had celebrated fifty years of activity in the manufacture of agricultural equipment, developed the Kemp power soil shredder and established the Kemp Mfg. Co. to produce it twenty-five years ago. Starting out as a machinist, he had also worked as an inspector, a traveling field expert on equipment and a factory superintendent before he founded his own company.

Survivors include two daughters, Mary Alice and Mrs. Helen Blodgett, and four sons, Lyman, Daniel, Nelson and Thomas. The Kemp Mfg. Co. will be continued by Lyman Kemp, as manager, and Thomas and Daniel Kemp, as active partners.

The

# "PLANTING URGE"

## PAYS YOU MORE with CLOVERSET POTS



### NOW! 2 WEIGHTS

#### Standard HEAVY — Special LIGHT

Where you plan for a long season extending into the fall, we recommend the Standard Heavy Pot. Larger plants require the heavier pots. They will prevent losses in the event there should be a small carry-over to the next season.

For short-season selling the Special Light Pot will do a good job. Made only in the three smaller sizes for smaller plants. Costs you less than any comparable pot.

Since potting needs to be done early for greatest success, use Special Light Pots for stock that is to be sold first and Standard Heavy Pots for stock that will be sold last.

#### SEND ONLY 25¢ FOR SAMPLES

OF NO. 0, 1, 2, 3. WE PAY THE POSTAGE.

Correct Size for Every Purpose



**No. 0**  
For perennials and greenhouses.



**No. 1**  
For perennials and MUMS.



**No. 2**  
For roses and shrubs.



**No. 3**  
For large shrubs and transplanting.

Nature gives folks the "Planting Urge" after the dormant planting season is over. Warm, sunny spring days make them want to plant something, but dormant stock doesn't do well then. Nature sometimes works against us with a short season . . . BUT NOT IF YOU USE CLOVERSET POTS.

When you use Cloverset Pots to start and grow plants, you'll have them ready for bigger profit selling at the very time nature gives folks the "Planting Urge." You no longer need to depend on nature for a good dormant season. You can make your own season and extend it right on through summer or as long as you have Cloverset Potted Plants. Plants in foliage or bloom and which can easily be replanted without loss will sell fast at far greater profits to you.

It's so much easier to work with nature by letting the "Planting Urge" and Cloverset Pots INCREASE YOUR PROFITS on roses, shrubs, perennials, vines, fruit trees and other stock. This year . . . BE READY. ORDER Cloverset Pots NOW.

#### DON'T DELAY ORDER POTS NOW!

L.C.L. shipments are pooled when possible to save on freight.

#### Write for This FREE GUIDE BOOK

#### New No. 4 Pot

This larger pot is ideal for large shrubs, fruit trees and evergreens. Send 25¢ for sample to be sent postpaid. Packed 25 per carton.



Gives you pictures and complete story on how to use Cloverset Pots.

Practical Nurserymen for 26 years.

## CLOVERSET FLOWER FARM

ERNEST HAYSLER & SON

105th Street and Broadway, Kansas City 5, Mo.

Standard HEAVY	No. 0	No. 1	No. 2	No. 3	No. 4
Height	5½ ins.	6½ ins.	9½ ins.	9 ins.	Height . . . 13 ins.
Diam. Top	5 ins.	6 ins.	7 ins.	8 ins.	Diam., top 12 ins.
Bottom Diam.	4½ ins.	5½ ins.	6½ ins.	7½ ins.	Diam., bot. 11 ins.
Corresponding Clay Pot	6-in.	7-in.	8-in.	9-in.	Approx. Wt., per 100 200 lbs.
Approx. Weight per 100	35 lbs.	52 lbs.	78 lbs.	88 lbs.	25 pots \$ 6.25 50 pots 12.50 75 pots 18.75 100 pots 22.50 1000 pots 200.00
Per 100	\$3.00	\$4.25	\$4.75	\$5.25	
Per 1000	\$27.50	\$40.00	\$45.00	\$50.00	

300 pots or more, one size or asst. sizes take the 1000 price.

Special LIGHT	No. 0	No. 1	No. 2	Send 25¢ for set of samples. We pay postage.
Per 200	\$5.00	\$7.00	\$8.00	
Per 1000	\$22.50	\$32.50	\$37.50	
Approx. Wt. per 200	25 lbs.	37 lbs.	50 lbs.	
Approx. Wt. per 1000	125 lbs.	185 lbs.	250 lbs.	Freight rates are based on min. of 100 lbs. Less than 100 lbs. take 100-lb. rate.

Packed 200 per carton. Please order in multiples of 200.

## AMERICAN ASSOCIATION OF NURSERYMEN

RICHARD P. WHITE,  
EXECUTIVE SECRETARY



636 SOUTHERN BLDG.  
WASHINGTON 5, D. C.

### SPECIAL A. A. N. CONVENTION TRAIN CARS ASSIGNED.

The first five cars for the special train to San Francisco for the convention of the American Association of Nurserymen in July have been released by the Pullman Co. These cars will be on the train which will return to Chicago via the northern route. William J. Smart, A. A. N. transportation chairman, is assigning nurserymen to these cars in the order of their applications.

Requests for reservations on the A. A. N. special convention trains had been received from 229 persons by early February. Each person who has made a reservation has been asked which route he prefers, the one south from San Francisco via Los Angeles and the Grand Canyon, or the other north via Portland, Vancouver and the Canadian Rockies. Eighty persons have not answered this query and thus cannot be assigned to cars. It is important that reservations be made early, not only to plan train travel, but also so arrangements can be made for sleeping accommodations on the boat from Victoria to Vancouver. Mr. Smart is endeavoring to complete reservations by the end of March, as shipping at the D. Hill Nursery Co., Dundee, Ill., will occupy most of his time in spring.

Two pamphlets, one giving the official convention itinerary and the other showing interesting places to visit at San Francisco, have been sent to A. A. N. members. San Francisco is pictured as the ideal convention city, offering numerous types of entertainment, including sports, historic spots, theaters and night clubs.

The trains leave Chicago July 12, arriving at San Francisco July 16. Following five days of convention, the return trip will start July 21 from San Francisco. The southern return train will arrive back at Chicago July 26 while the northern return train will arrive at Chicago July 29. A complete convention itinerary was published in the American Nurseryman for December 1, 1948.

The cost of the trip includes accommodations, meals and sight-seeing on the train trip to and from San Francisco, but not meals and hotel accommodations there nor trips from members' home cities to Chicago.

### DISEASE-RESISTANT BUISMAN ELM AVAILABLE.

The United States Department of Agriculture will have available for spring distribution a limited quantity of the Buisman elm, which has proved resistant to both the Dutch elm disease and phloem necrosis disease. The supply will be distributed for trial purposes to members of the American Association of Nurserymen located in areas where these diseases are known to exist. Interested members may write to the A. A. N. at Washington, D. C.

These trees are on their own roots and must be propagated by root cuttings to maintain their dual resistance.

### OUR SPECIALS

Peach, 1-yr. buds.  
Willow, Babylon, 6 to 8 ft., 8 to 10 ft.  
Willow, Wisconsin Weeping, 6 to 8 ft., 8 to 10 ft., 10 to 12 ft.  
Berberis Thunbergi, seedlings, 2 and 3-yr., branched, 6 to 9 ins., up to 18 to 24 ins.  
Arborvitae American, 2 to 2½ ft., 2½ to 3 ft., 3 to 4 ft.  
Juniper, Pfitzer, 2 to 2½ ft., 3 to 4 ft. spread.  
Pine, Mugho, all sizes from 16-in. up to 2 to 4 ft. spread.  
Spruce, White, 2 to 2½ ft., 3 to 4 ft., 4 to 6 ft.  
Taxus, in variety, 12 ins. up to 2 to 2½ ft.  
Asparagus, Paradise, 2-yr., the newest and best variety.  
Perennials, strong, field-grown, in a wide assortment of varieties, including a splendid collection of hardy Mums.

Write for our Trade Price List.

**BROWN BROTHERS CO.**  
Brighton Station,  
ROCHESTER 10, N. Y.

### AMERICAN HOLLY

Special sale of 2,000 selected nursery stocks, several named varieties, all female, 1 to 5 feet. Any reasonable offer accepted from the trade.

Write for appointment.

**WILMAT HOLLY**  
P. O. Box 37  
CHESTERTOWN, MD.

### Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List

**W. - T. Smith Corporation**  
Telephone 2689  
GENEVA, N. Y.

### AMERICAN NURSERYMAN

Directions for doing this successfully will be supplied. The elm is the smoothleaf elm, *Ulmus carpinifolia*. This clone originated in Spain.

### A. A. N. REGISTRATION OF NEW WOODY PLANTS.

The registration of new woody plants, originated or introduced in the United States since 1930, exclusive of fruits and roses, has been undertaken by the American Association of Nurserymen to answer the need for a complete listing, since up to the present no formal registry of woody plants has been maintained. However, fruit trees that have ornamental value will be registered by the A. A. N. The registration is intended to reduce the possibility of other

### QUALITY MERCHANDISE AT REASONABLE PRICES

See our display advertisement in the February 1 issue for complete list.

**Rosa Multiflora Japonica**,  
conservation grade, 8 to 15 ins.,  
tops for lining hedges.

Immediate delivery.

**C. L. VANDERBROOK & SON**  
P. O. Box 125, Sta. "A"  
MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

### ACER PLATANOIDES • NORWAY MAPLES

#### Look!

	Look!
% to 1-in. cal.	Per 100
1 to 1½-in. cal.	\$ 75.00
1½ to 2-in. cal.	100.00
2 to 2½-in. cal.	200.00
2½ to 3-in. cal.	325.00
3 to 3½-in. cal.	375.00
3½ to 4-in. cal.	500.00

Additional charge of 10% will be added for balling and shipping. No charge will be made for loading bulk trucks.

When C.O.D. shipment is desired, a cash deposit of 25% must accompany order.

**STATE ROAD NURSERY**  
State and Sprout Bds.  
Route 1  
MEDIA, PA.

### EVERGREENS

Seedlings and Transplants

Spring, 1949

Write for price list.

**SUNCREST EVERGREEN NURSERIES**  
JOHNSTOWN, PA.

# BUNTINGS' NURSERIES, Inc.

Box 3 Selbyville, Del.

Place your order now for shipment when wanted. All stock listed here can be shipped promptly upon receipt of order. Liberally graded, true-to-name, best quality stock—offered at attractive prices. Our fruit trees are inspected annually by Dr. French and his associates from Massachusetts State College for trueness to name.

## APPLE TREES

	Per	Per	Per
Each	10	100	1000
1-in. and up, heavily br.	\$1.05	\$9.00	\$80.00
1/2 to 1-in., 6 to 7 ft.	.90	7.50	65.00
11/16 to 2-in., 5 to 6 ft.	.75	5.50	45.00
9/16 to 11/16-in., 4 to 5 ft.	.65	5.00	40.00
7/16 to 9/16-in., 3 to 4 ft.	.55	3.80	28.00
5/16 to 7/16-in., 2 to 3 ft.	.45	3.20	22.00
<b>Anoka, Baldwin, Solid Red Delicious, Red Gravenstein, Grimes Golden, Hyslop Crab, Dbl. Red Jonathan, Lodi, Dbl. Red McIntosh, Red Siberian Crab, Red Spy, Red Rome Beauty, R. I. Greening, Smokehouse, Dbl. Red Stayman, Sweet Paradise, Transcendent Crab, Williams Early Red, Winter Banana, Yellow Delicious, Yellow Transparent, York Imperial.</b>			

## PEACH TREES

	Per	Per	Per
Each	10	100	1000
1-in. and up, heavily br.	\$1.05	\$9.00	\$80.00
1/2 to 1-in., 6 to 7 ft.	.90	7.50	65.00
11/16 to 2-in., 5 to 6 ft.	.75	6.00	50.00
9/16 to 11/16-in., 4 to 5 ft.	.65	5.00	40.00
7/16 to 9/16-in., 3 to 4 ft.	.55	4.00	30.00
5/16 to 7/16-in., 2 to 3 ft.	.45	3.00	20.00
3/16 to 5/16-in., 2 to 3 ft.	.40	2.50	15.00
<b>Amber Gem, Belle of Georgia, Brackett, Carmann, Early Crawford, Crawford, Elberta, Gage, Elberta, Golden-cake, Golden Jubilee, Greensboro, Halchaven, Heath Cling, J. H. Hale, O'Boy, Redhaven, Rochester, Shipp's Late Red, Sunhigh, Summercrest, Triogem, Valiant, Vedette, White Hale.</b>			

## PEAR TREES

	Per	Per
Each	10	100
11/16 to 2-in., 5 to 6 ft.	\$1.10	\$9.50
9/16 to 11/16-in., 4 to 5 ft.	.95	8.00
7/16 to 9/16-in., 3 to 4 ft.	.85	7.00
<b>Bartlett, Cayuga, Clapp Favorite, Duchess, Kieffer, Seckel.</b>		

## PLUM TREES

	Per	Per
Each	10	100
11/16 to 2-in., 5 to 6 ft.	\$1.10	\$9.50
9/16 to 11/16-in., 4 to 5 ft.	.95	8.00
7/16 to 9/16-in., 3 to 4 ft.	.85	7.00
<b>Abundance, Burbank, Fellenberg, Stanley Prune, Shropshire Damson, Red June.</b>		

## SWEET CHERRY TREES

	Per	Per
Each	10	100
11/16 to 2-in., 5 to 6 ft.	\$1.40	\$12.50
9/16 to 11/16-in., 4 to 5 ft.	1.15	10.00
7/16 to 9/16-in., 3 to 4 ft.	1.00	8.50
5/16 to 7/16-in., 2 to 3 ft.	.90	7.50
<b>Black Tartarian, Governor Wood, Lambert, Napoleon, Schmidt's Bigarreau, Yellow Spanish.</b>		

## SOUR CHERRY TREES

	Per	Per
Each	10	100
11/16 to 2-in. cal.	\$1.25	\$11.00
9/16 to 11/16-in. cal.	1.15	10.00
7/16 to 9/16-in. cal.	1.00	8.50
5/16 to 7/16-in. cal.	.90	7.50
<b>Montmorency, May Duke, Early Richmond, English Morello.</b>		

## ASPARAGUS ROOTS

Our Asparagus Roots have made a very good growth this season. We are the largest growers of Asparagus in the country. Write for special prices on large numbers.

	Per	Per	Per
25	100	250	1000
3-yr., heavy No. 1 grade.	\$1.00	\$3.50	\$7.50
2-yr., heavy No. 1 grade.	.75	2.50	4.75
1-yr., heavy No. 1 grade.	.60	2.00	3.50
<b>Varieties: Mary Washington, Paradise.</b>			

## RHUBARB ROOTS

	Per	Per	Per	Per
25	100	250	1000	
1 1/2 to 2-in. cal.	\$2.00	\$6.50	\$15.00	\$35.00
1 to 1 1/2-in. cal.	1.50	4.50	10.00	35.00
5/8 to 1-in. cal.	1.25	3.50	7.50	25.00
5/8 to 5/8-in. cal.	1.00	2.50	5.00	16.00
<b>Varieties: Victoria, Myatt's Linness.</b>				

## STRAWBERRY PLANTS

	Per	Per	Per	Per
25	100	250	1000	
<b>STANDARD VARIETIES:</b>				
<b>Big Joe, Blakemore, Dunlap, Robinson Temple, Ambrosia Late, Chesaapeake, Dorsett, Fairfax, Gandy, Premier, Sparkle, Fairland.</b>				
<b>EVERGREEN VARIETIES:</b>				
<b>Gem, Gemstar, Mastodon, Streamliner.</b>				

## CANNAS

Carefully grown under our personal supervision, our Cannas are true-to-name, liberally graded, strong 2 to 5-eye divisions, and will please the most exacting type of customer.

Per Per

100 1000

<b>ALLEMANIA.</b> Tall. Flowers bright scarlet with yellow border, green foliage.	\$5.50	\$50.00
<b>AMBASSADOR.</b> Tall. Red flowers, bronze foliage.	5.50	50.00
<b>FIREBIRD.</b> Medium. Red flowers, green foliage.	5.00	45.00
<b>GOLDEN GATE.</b> Tall. Flowers open almost pure gold, but soon become richly rayed with orange-crimson.	5.50	50.00
<b>HUNGARIA.</b> Tall. Pink flowers, green foliage.	5.50	50.00
<b>KING HUMBERT.</b> Tall. Scarlet flowers, bronze foliage.	6.50	60.00
<b>LOUIS CAYEUX.</b> Medium. A giant-flowered bright rosy-scarlet, green foliage.	5.50	50.00
<b>MADAM CROZY.</b> Dwarf. Flowers red with yellow edge, green foliage.	5.50	50.00
<b>PRESIDENT.</b> Tall. Red flowers, green foliage.	6.50	60.00
<b>RICHARD WALLACE.</b> Medium. Canary-yellow flowers, green foliage.	5.00	45.00
<b>WINTZER'S COLOSSAL.</b> Medium. Red flowers, green foliage.	5.50	50.00
<b>YELLOW KING HUMBERT.</b> Medium. Yellow flowers, green foliage.	5.50	50.00

## HEDGE PLANTS

Our soil and climatic conditions are ideal for the production of good hedge plants. We guarantee our stock to be as well grown and developed in grade as any in this country. Write for special prices on large numbers.

	Per	Per	Per
10	100	1000	
<b>CALIFORNIA PRIVET</b>			
(Ligustrum Ovalifolium)			
Special Grafting Grade.	\$0.50	\$ 3.00	\$ 20.00
6 to 12 ins., 2 canes or more.	.65	5.00	40.00
12 to 18 ins., 3 canes or more.	.75	6.00	50.00
18 to 24 ins., 3 canes or more.	.85	7.00	60.00
2 to 3 ft., 4 canes or more.	1.00	8.50	75.00
3 to 4 ft., 6 canes or more.	1.50	12.50	110.00
4 to 5 ft., 6 canes or more.	2.25	17.50	150.00
<b>AMUR RIVER NORTH PRIVET</b>			
(Ligustrum Amurensis)			
1 1/2 to 2 ft., 3 canes or more.	1.00	8.50	75.00
2 to 3 ft., 4 canes or more.	1.40	12.00	105.00
3 to 4 ft., 6 canes or more.	1.80	16.00	145.00

<b>BERBERIS THUNBERGII</b>			
(Green-leaved Barberry)			
3-yr., 9 to 12 ins., trans.	1.00	12.00	110.00
3-yr., 12 to 15 ins., trans.	2.00	16.00	150.00
3-yr., 15 to 18 ins., trans.	2.50	20.00	190.00
3-yr., 1 1/2 to 2 ft., trans.	3.00	25.00	240.00
3-yr., 2 to 2 1/2 ft., trans.	4.00	37.50	340.00
2-yr., 9 to 12 ins., br. sdgs.	.75	5.00	30.00
2-yr., 12 to 18 ins., br. sdgs.	1.00	7.00	50.00
2-yr., 18 to 24 ins., br. sdgs.	1.25	10.00	75.00

<b>BERBERIS THUNBERGII ATROPURPUREA</b>			
(Red-leaved Barberry)			
3-yr., 9 to 12 ins., trans.	2.50	20.00	175.00
3-yr., 12 to 15 ins., trans.	3.00	25.00	200.00
3-yr., 15 to 18 ins., trans.	3.50	30.00	260.00
3-yr., 1 1/2 to 2 ft., trans.	4.00	35.00	300.00
3-yr., 2 to 2 1/2 ft., trans.	5.00	45.00	400.00
2-yr., 9 to 12 ins., br. sdgs.	1.00	8.00	65.00
2-yr., 12 to 18 ins., br. sdgs.	1.50	12.50	110.00
2-yr., 18 to 24 ins., br. sdgs.	2.50	20.00	175.00

FREE PACKING FOR CASH WITH ORDER. Our Wholesale List offers a complete line of nursery stock available for the trade. If you have not received a copy, write us today. When requesting wholesale rates, kindly use your printed stationery. If interested in large lots, please submit a list of your anticipated requirements for special consideration.

# KELLY BROTHERS NURSERIES, Inc.

Phone: 764

Dansville, N. Y.

We offer a complete assortment of Fruit Trees.

All Trees graded—ready for immediate shipment.

Send us your Want List for Special Low Quotations.

## SOUR CHERRY

1 and 2-yr.

- 12 to 18 ins.
- 18 to 24 ins.
- 24 to 30 ins., 5/16-in.
- 2 to 3 ft., 7/16-in.
- 3 to 4 ft., 9/16-in.
- 4 to 5 ft., 11/16-in. and up.

Varieties:  
Montmorency, English Morello, Early Richmond.

## PEARS

2-yr. branched.

- 12 to 18 ins.
- 18 to 24 ins., 3/16-in.
- 2 to 3 ft., 5/16-in.
- 3 to 4 ft., 7/16-in.
- 4 to 5 ft., 9/16-in.
- 5 to 6 ft., 11/16-in. and up.

Varieties:  
Bartlett, Cayuga, Clapp Favorite, Beurre d'Anjou, Duchesse, Flemish Beauty, Kieffer, Seckel, Sheldon, Waite, Willard.

## SWEET CHERRY

1 and 2-yr., whips and branched.

- 12 to 18 ins.
- 18 to 24 ins.
- 2 to 3 ft.
- 3 to 4 ft.
- 4 to 5 ft.
- 5 to 6 ft.

Varieties:

Black Giant, Black Tartarian, Gov. Wood, Napoleon, Schmidt's Bigarreau, Windsor.

## PEACH

- 1-yr., 5/16-in.
- 1-yr., 7/16-in.
- 1-yr., 9/16-in. and up.

Assortment of leading varieties.

## PLUMS

1 or 2-yr.

- 12 to 18 ins.
- 18 to 24 ins., 3/16-in.
- 2 to 3 ft., 5/16-in.
- 3 to 4 ft., 7/16-in.
- 4 to 5 ft., 9/16-in.
- 5 to 6 ft., 11/16-in. and up.

Varieties:

Abundance, Burbank, Bradshaw, Formosa, Fellenberg, Stanley, Shiro, Shropshire Damson, Santa Rosa, Yellow Egg.

## QUINCE

1 and 2-yr.

- 2 to 3 ft.
- 3 to 4 ft.

Varieties:  
Orange.

## APPLE

2-yr. branched.

- 3 ft., 5/16-in.
- 3 to 4 ft., 7/16-in.
- 4 to 5 ft., 9/16-in.
- 5 to 6 ft., 11/16-in. and up.

Varieties:

Baldwin, Cortland, Dolgo, Crab, Delicious, Double Red Delicious, Early McIntosh, Hyslop, Crab, Macoun, McIntosh, Lodi, Red Rome Beauty, Red Gravenstein, Red Spy, Stayman Winesap, Yellow Delicious, Yellow Transparent.

## NUT TREES

Black Walnut and Butternut.

Transplants:

- 2 to 3 ft.
- 3 to 4 ft.
- 4 to 5 ft.

# KELLY BROTHERS NURSERIES, Inc.

**J & P**

In good assortment.

EVERGREENS  
SHADE TREES

**Jackson & Perkins Co.**  
NEWARK,  
NEW YORK STATE

SHRUBS, VINES  
HEDGE PLANTS, etc.

**ORNAMENTAL VINES**  
Clematis, Honeysuckle, Silver-lace, etc.  
Send for our price list.

**JAMES I. GEORGE & SON**  
FAIRPORT, N. Y.

**POTTED LINERS**  
GRAFTS  
(Beetle Certified)

**HEASLEY'S NURSERIES**  
Freeport Rd. BUTLER, PA.

clones' becoming confused with an original introduction and sold under its name.

Nurserymen who have originated or introduced woody plants since 1930 are asked to write for registration cards, fill them out and mail them to the American Association of Nurserymen, 636 Southern building, Washington 5, D. C.

One hundred forty-three woody plants previously registered with the A. A. N. have already been described in earlier issues. Additional registrations appear below.

No. 144. *Ilex Miss Helen*. Seedling of the American holly, *Ilex opaca*, discovered December, 1930, at Magog River, Md., and introduced by McLean Nurseries, Towson, Md. This clone of *I. opaca* may be distinguished by its habit of consistently bearing a heavy crop of unusually large, bright red berries when it has reached a height of only fifteen to eighteen inches. It is hardy in any location where its parent, *I. opaca*, grows. It grows best in a well drained, acid soil. Registered by Stewart H. McLean, McLean Nurseries, Towson, Md.

No. 145. *Gardenia Miami Supreme*. Sport of *Gardenia Jasminoides Veitch*, discovered by Mrs. V. C. Kondo, Comte Nursery, Miami, Fla., in 1938; introduced to the trade in 1940 and holds plant patent No. 622, granted April 4, 1944. The name was trade-marked February 4, 1943, with trade-mark No. 401950. The plant can be distinguished from its parent by being a rapid and vigorous grower and a large plant with prolific bloom. It is a good forcer. Flower buds are three to four inches long with flowers four to six inches in diameter; the flowers themselves have outstanding lasting and shining quality. Zone and limits of hardiness are the same as for the genus, and it is adapted to acid soils rich in organic matter. Registered by Valentine Comte Kondo, Comte Nursery, Miami, Fla.

No. 146. *Camellia Katherine Stanton*. American Camellia Society registration No. 1. Introduced to the trade in 1945. Its growth is upright and rapid. Branches are willowy. Leaf is very dark green and inclined to be flat. Buds are oblong, rich green in color, forming usually in doubles and sometimes three on a stem. Flowers are single, deep rose-pink and fragrant. Three to four and one-half inches in diameter with six petals. Flowering season early December through February. Registered by H. B. Stanton, Savannah, Ga.

No. 147. *Camellia Plumfield White*. American Camellia Society registration No. 2. White-flowering camellia originated by J. P. Illeges, Plumfield, Columbus, Ga.; introduced to the trade in 1948. Growth is upright and rapid. Leaves are elliptical and dark green. Buds are long, pointed and green. Flowers are incomplete double, white and fragrant with large petals. Ten to twenty petals, four to five and one-half inches in diameter. Flowering season is January to March. Registered by J. P. Illeges, Plumfield, Columbus, Ga.

No. 148. *Camellia Joseph Pflugst*. American Camellia Society registration No. 3. Originated by Emmett J. Pflugst, Montgomery, Ala.; introduced in 1948. Growth is upright and rapid. Dark red buds are oval. Flower is very large, about five inches in diameter, incomplete double, dark red. The petals on the outer edge are waved and become fluted toward the center, where they surround a group of yellow stamens and stand erect like rabbit ears. Other stamens are intermixed with the petals. Fluted erect central petals add depth to the bloom giving it somewhat of a hemispherical appearance. Some of the blooms may be single, semi-double, formal, double, bearing the same color characteristics and may or may not show stamens when fully open. Vigorous sturdy growth with large, broad, dark green serrated foliage. Blooming season extends from the middle of October until about the middle of April. The plant is hardy, and blooms last for days, holding their form and color well, especially when in partial shade. Registered by Emmett J. Pflugst, Pflugst's Nursery, Montgomery, Ala.

No. 149. *Magnolia George Henry Kern*. Hybrid of *Magnolia stellata* and an unknown parent, discovered in May, 1930, at Cincinnati, O., by Carl E. Kern, Wyoming Nurseries, Cincinnati, O.; introduced to the trade in May, 1947. Holder of plant patent No. 840 granted January 11, 1949. Distinguished from *Magnolia stellata* by broader flower petals, which are one-half inch deep, rough on the outer surface, inner surface soft white suffused with pink at tips. Later and longer blooming period than *stellata*. The closed flower buds are deep reddish-purple. Limits of hardiness are the same as for *Magnolia*.

# SPECIAL

## 10% DISCOUNT OFFER On 5,000 Lots or More

We offer for immediate booking, shipment when desired in Spring, 1949, the following list of Deciduous Shrubs, Shade Trees and Vines which we have in surplus. **DISCOUNT APPLIES ONLY WHEN 5,000 OF ANY ONE VARIETY IS ORDERED.**

**TERMS:** Three (3) per cent discount and free boxing and packing for cash with order. Open accounts (on known or approved credit rating), two (2) per cent ten days; one (1) per cent twenty days; net thirty days from date of shipment. Interest at six (6) per cent charged on all past-due accounts.

**CONDITIONS:** Same as in our regular Price List.

### HARDY DECIDUOUS FLOWERING SHRUBS

	Per	Per	Per
BERBERIS THUNBERGII.			
Green-leaved Barberry.	10	100	1000
6 to 9 ins., S.	\$0.40	\$ 3.00	\$ 25.00
9 to 12 ins., 2-yr. S.	.50	4.00	30.00
9 to 12 ins., 2-yr. Br.	.60	5.00	40.00
12 to 15 ins., Br. S.	.70	6.00	50.00
15 to 18 ins., 2-yr. S., Br.	.80	7.00	60.00

### CYDONIA JAPONICA.

Japanese Quince.			
4 to 6 ins., S.	.30	2.00	18.00
6 to 12 ins., S.	.40	3.00	25.00
12 to 18 ins., 2-yr. S.	.50	4.00	35.00
18 to 24 ins., 2-yr. S.	.60	5.00	45.00
2 to 3 ft., 2-yr. S.	.70	6.00	55.00
12 to 18 ins., 2-yr., well Br.	1.00	9.00	80.00

### DEUTZIA SCABRA.

Varieties:			
Candida, Double White.			
Crenata, Double Pink.			
Pride of Rochester, Double Rose.			
6 to 12 ins., C.	.35	2.50	20.00
12 to 18 ins., well Br.	.70	6.00	50.00
18 to 24 ins., well Br.	1.25	10.00	80.00
2 to 3 ft., well Br.	1.50	12.00	100.00

### FORSYTHIA FORTUNEI.

Fortune Forsythia.			
12 to 18 ins., well Br.	.60	5.00	40.00
18 to 24 ins., well Br.	1.50	12.00	100.00

### LIGUSTRUM AMURENSE.

Amur River North Privet.			
L.O. Field-grown, 1 and 2 Canes.	.30	2.00	17.50
6 to 12 ins., 2 Br. up.	.40	3.00	25.00

### LIGUSTRUM IBOLIUM.

Ibolum Privet.			
L.O. Field-grown, 1 and 2 Br.	.30	2.00	17.50
6 to 12 ins., 2 Br. up.	.40	3.00	25.00
12 to 18 ins., 2 Br.	.50	4.00	35.00
12 to 18 ins., 3 Br. up.	.60	5.00	45.00
18 to 24 ins., 2 Br.	.60	5.00	45.00
18 to 24 ins., 3 Br. up.	.80	7.00	60.00
2 to 3 ft., 4 Br. up.	1.00	8.00	75.00

### LIGUSTRUM OVALIFOLIUM.

California Privet.			
L.O. Field-grown.	.25	1.50	10.00
6 to 12 ins., 2 Br. up.	.30	2.00	15.00
12 to 18 ins., 3 Br. up, 2-yr.	.45	3.50	30.00
18 to 24 ins., 3 Br. up, 2-yr.	.60	4.50	40.00
2 to 3 ft., 4 Br. up, 2-yr.	.70	6.00	50.00

### LIGUSTRUM SINENSE.

Amur River South Privet.			
4 to 6 ins. S.	.60	3.50	
6 to 12 ins. S.	.80	5.00	

### RHUS COPALLINA.

Shining Sumac.			
L.O. Field-grown.	.15	1.25	10.00
18 to 24 ins. S.	.20	1.50	12.00
2 to 3 ft. S.	.30	2.00	15.00
3 to 4 ft. S.	.40	3.50	30.00

### RHUS GLABRA.

### RHUS TYPHINA.

### Staghorn Sumac.

### SHRUBS

### SPIRAEA VANHOUTTEI.

	Per	Per	Per
Vanhoutte Spiraea.	10	100	1000
L.O. Field-grown.	\$0.35	\$ 2.50	\$ 20.00
6 to 12 ins.	.40	3.00	25.00
12 to 18 ins., hedging.	.65	5.50	50.00
18 to 24 ins., hedging.	.75	6.50	60.00

### FOREST and SHADE TREES

#### CATALPA SPECIOSA.

	Per	Per	Per
Northern Catalpa.	10	100	1000
6 to 12 ins., S.	\$0.15	\$ 0.90	\$ 7.00
12 to 18 ins., S.	.20	1.25	10.00
18 to 24 ins., S.	.30	2.00	16.00
2 to 3 ft., S.	.40	3.00	22.00
3 to 4 ft., S.	.50	3.50	30.00

#### CELTIS MISSISSIPPIENSIS.

Southern Hackberry.			
6 to 12 ins., S.	.25	2.00	15.00
12 to 18 ins., S.	.30	2.50	20.00
18 to 24 ins., S.	.40	3.50	30.00
2 to 3 ft., S.	.50	4.50	30.00

#### DIOSPYROS VIRGINIANA.

American Persimmon.			
6 to 12 ins., S.	.30	2.00	15.00
12 to 18 ins., S.	.40	3.00	25.00

#### JUGLANS NIGRA. Black Walnut.

Black Walnut.			
6 to 12 ins., S.	.35	2.50	20.00
12 to 18 ins., S.	.50	3.50	30.00
18 to 24 ins., S.	.60	5.00	40.00
2 to 3 ft., S.	.80	7.00	60.00
3 to 4 ft.	3.00	20.00	100.00
4 to 5 ft.	4.00	30.00	200.00

#### MALUS CORONARIA. Wild Sweet Crab.

Wild Sweet Crab.			
2 to 3 ft., 2-yr. Br. S.	2.00	15.00	
3 to 4 ft., 2-yr. Br. S.	3.00	25.00	
4 to 5 ft., 2-yr. Br. S.	4.00	35.00	

#### MORUS ALBA TATARICA.

Russian Mulberry.			
12 to 18 ins., S.	.30	2.00	15.00
18 to 24 ins., S.	.40	2.50	20.00
2 to 3 ft., S.	.50	3.50	30.00
3 to 4 ft. S.	.60	5.00	40.00

#### POPULUS NIGRA ITALICA.

Lombardy Poplar.			
6 to 12 ins., C.	.20	1.50	12.00
12 to 18 ins., C.	.30	2.00	17.50
18 to 24 ins., C.	.40	3.00	25.00
2 to 3 ft., C.	.60	5.00	40.00

#### ROBINIA PSEUDOACACIA.

Black Locust.			
4 to 6 ins. S.	.50	4.00	
6 to 12 ins. S.	.75	6.00	
12 to 18 ins. S.	1.25	10.00	
18 to 24 ins. S.	.30	2.00	15.00
2 to 3 ft. S.	.35	2.50	20.00

### VINES and CREEPERS

#### LONICERA JAPONICA HALLIANA.

	Per	Per	Per
Hall's Japanese Honeysuckle.	10	100	1000
Small, lining-out	\$0.90	\$ 7.00	
Medium, lining-out	1.25	10.00	

#### VINCA MINOR. Common Periwinkle.

Medium, lining-out (small)	\$0.15	1.00	7.00
Medium, lining-out	.20	1.25	10.00

PLEASE SEE OUR OTHER AD ON PAGES 13-14-15 OF THIS ISSUE AND OUR CLASSIFIED AD ON HARDWOOD CUTTINGS.

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Having completed our fall shipments of retail orders, we offer the following stock for immediate or later shipment.

All stock is in perfect condition and is strictly as advertised. Do not be misled by these low prices and confuse this stock with undesirable stock. You will be tickled pink with the quality. Much of this stock must be moved in order that we continue our terracing program which we are doing under the supervision of the U. S. Soil Conservation Service. It's their orders that we MUST CLEAN THESE FIELDS before they can continue with their program.

First come, first served. Cash with order, please. Free packing.

	Per 10	Per 100	Per 1000		
<b>Forsythia</b> , (mostly spectabilis)					
18 to 24 ins., well br., 3-yr.	\$1.10	\$10.00	\$90.00		
2 to 3 ft., well br., 3-yr.	1.85	15.00	135.00		
3 to 4 ft., well br., 3-yr.	2.25	20.00	175.00		
<b>Spiraea vanhouttei</b>					
18 to 24 ins., well br., 3-yr.	1.75	15.00	135.00		
2 to 3 ft., well br., 3-yr.	2.25	20.00	175.00		
3 to 4 ft., well br., 3-yr.	2.75	25.00	225.00		
<b>Hydrangea P. G.</b>					
15 to 18 ins., well br., 3-yr.	2.50	...	...		
18 to 24 ins., well br., 3-yr.	3.50	...	...		
<b>Amur River North Privet</b>					
18 to 24 ins., extra-hvy. br.	.80	7.00	...		
24 to 30 ins., extra-hvy. br.	1.00	8.50	...		
<b>Peach Trees</b> (Some slightly crooked), dormant buds.					
18 to 24 ins.	.50	4.00	...		
24 to 30 ins.	.75	6.25	...		
30 to 36 ins.	1.00	8.75	...		
3 to 4 ft.	1.40	12.00	...		
4 to 5 ft.	1.80	16.00	...		
Varieties:	18 to 24 ins.	24 to 30 ins.	30 to 36 ins.	3 to 4 ft.	4 to 5 ft.
<b>Belle of Georgia</b>	410	375	200	140	100
<b>Golden Jubilee</b>	250	220	140	60	30
<b>Haishaven</b>	240	230	100	...	...
<b>Red Bird</b>	200	190	100	110	...
<b>Mayflower</b>	50	30	40	60	...
<b>Elberta</b>	210	140	420	150	...
<b>Kieffer Pear</b> , well br., 2-yr.					
80 5/16-in., 2 to 3 ft.	\$0.25	\$2.10	...		
120 7/16-in., 3 to 4 ft.	.35	3.00	\$27.50		
50 9/16-in., 4 ft.	.45	4.00	...		

Please give shipping instructions; how and when.



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stellata, registered by Carl E. Kern, Wyoming Nurseries, Cincinnati, O.

No. 150. Ilex Green Island. Seedling of Ilex crenata, originated at Styer's Nurseries, Concordville, Pa.; discovered in 1935 and introduced in 1949. Holder of plant patent No. 817. Virtually all growth is horizontal, forming a low broad plant even when uncontrolled. Leaves are small for the species, and flat. More rapid growth than Kingsville Dwarf holly (Ilex crenata Kingsville) or Heller's dwarf holly (Ilex crenata Heller). Tolerance of wetness and shade. Limits of hardiness are the same as for the hardiest of the species. It is not necessarily an acid soil plant, according to the originator. Registered by J. F. Styer, Styer's Nurseries, Concordville, Pa.

No. 151. Camellia Rosedale's Beauty. Seedling of Camellia japonica, unknown parentage, originating at Pasadena, Calif., and discovered by Vern O. McCaskill in 1934; introduced to the trade in 1941 by Harry E. Rosedale, Monrovia Nursery Co., Monrovia, Calif. Name trade-marked September 5, 1941. The leaves are round and shiny. Flowers are graceful, formal, dark pink to light red. Petals are incurved and pointed when young. Shows some stamens in occasional flowers. As hardy as most kinds of the Camellia japonica group. Has good growth even under adverse conditions. Registered by Martin W. Usery, Monrovia Nursery Co., Monrovia, Calif.

No. 152. Weigela Vanicek. Sport of Weigela Eva Rathke, originating at Newport, R. I., in 1929; introduced by V. A. Vanicek, Rhode Island Nurseries, Newport, R. I. A more upright grower than Weigela Eva Rathke, harder and with larger flowers which are lighter red in color. Flowers are borne on young wood. It is hardy in Illinois, Wisconsin and Massachusetts. Registered by V. A. Vanicek, Rhode Island Nurseries, Newport, R. I.

### COVER ILLUSTRATION.

#### Exochorda Racemosa.

Exochorda racemosa, more commonly known as E. grandiflora, is less generally planted than its beauty deserves. Its name of pearlbrush is derived from the show which its white globular flower buds provide in April or May, but the expanded flowers, about two inches across, located eight to ten in terminal racemes, continue the beautiful display.

This slender-branched shrub will make a rounded mass of ten to fifteen feet in height. The growth is twiggy, with bright green foliage which is gray beneath. The older stems have a loose, shaggy brown bark, showing a lighter shade beneath that adds to its attractiveness in winter. Because of the erect loose growth, plants sometimes become leggy in old age, but compactness can be induced by annual pruning after the flowering period.

A native of eastern China, the pearlbrush is hardy as far north as Massachusetts. It does well in a well drained loamy soil and not so well where lime is abundant. The rate of growth is moderate, and the pearlbrush does well in sun or partial shade. It is particularly effective on a slope. It is not subject to insect pests and needs only moderate pruning.

The probable reason that the pearlbrush is not more frequently planted is that it is difficult to move, especially in larger sizes, unless handled balled and burlapped. The fine-textured foliage, the striking appearance

# THE PONTIAC NURSERY COMPANY

ROMEO, MICHIGAN

## FRUIT TREES

Special attention to Mail-order Nurserymen:  
These trees are 2-yr. cutbacks, well rooted stock, of height  
and caliper mentioned.

### SOUR CHERRY TREES

7/16-in.	5/16-in.
2 to 3 ft.	18 to 24 ins.
35c each	25c each
417	406

Montmorency  
(Certified free from virus disease by Dept. of Agriculture,  
state of Michigan.)

### PEAR TREES

Cutbacks, 1-yr. tops	7/16-in.	5/16-in.	Whips
	30 to 38 ins.	24 to 30 ins.	20c each
Bartlett	606	1770	686
Beurre Chirgeau	...	70	...
Bonne	...	26	44
Clapp Favorite	110	336	230
Conference	...	98	19
Duchess	19	40	33
Flemish Beauty	44	110	40
Kleffer	100	204	34
Lincoln	47	63	20
Seckel	13	43	60
Sheldan	27	90	20

### FLOWERING SHRUBS

160	<i>Aralia Pentaphylla</i> , 2 to 3 ft.	Per 100	\$30.00
60	<i>Aralia Pentaphylla</i> , 18 to 24 ins.		25.00
110	<i>Caragana Arborescens</i> , 18 to 24 ins.		30.00
46	<i>Caragana Arborescens</i> , 12 to 18 ins.		25.00
34	<i>Cephaelanthus Occidentalis</i> , 2 to 3 ft.		30.00
79	<i>Cephaelanthus Occidentalis</i> , 18 to 24 ins.		25.00
60	<i>Cephaelanthus Occidentalis</i> , 12 to 18 ins.		18.00
200	<i>Cornus Amomum</i> , 4 to 5 ft.		31.00
100	<i>Forsythia Fortunei</i> , 3 to 4 ft.		40.00
100	<i>Forsythia Fortunei</i> , 2 to 3 ft.		30.00
100	<i>Forsythia Intermedia</i> , 3 to 4 ft.		35.00
500	<i>Forsythia Intermedia</i> , 2 to 3 ft.		25.00
100	<i>Forsythia Sieboldii</i> , 3 to 4 ft.		35.00
200	<i>Forsythia Sieboldii</i> , 2 to 3 ft.		30.00
200	<i>Forsythia Spectabilis</i> , 3 to 4 ft.		35.00
300	<i>Forsythia Spectabilis</i> , 2 to 3 ft.		30.00
500	<i>Lonicera Bella Albidia</i> , 3 to 4 ft.		35.00
300	<i>Lonicera Bella Albidia</i> , 2 to 3 ft.		30.00
150	<i>Lonicera Korolkowi</i> , 24 to 30 ins.		35.00
150	<i>Lonicera Korolkowi</i> , 18 to 24 ins.		30.00
300	<i>Lonicera Morrowi</i> , 3 to 4 ft.		35.00
300	<i>Lonicera Morrowi</i> , 3 to 2 ft.		30.00
300	<i>Lonicera Grand. Rosea</i> , 3 to 4 ft.		30.00
100	<i>Lonicera Xystoleum</i> , 3 to 4 ft.		16.00
200	<i>Philadelphia Ophelia</i> , 12 to 18 ins.		25.00
300	<i>Philadelphia Virginiana</i> , 18 to 24 ins.		30.00
250	<i>Philadelphia Virginiana</i> , 12 to 18 ins.		25.00
100	<i>Rosa Setigera</i> , 3 to 4 ft.		30.00
50	<i>Rosa Setigera</i> , 2 to 3 ft.		25.00
50	<i>Spiraea Salicifolia</i> , 3 to 4 ft.		35.00
200	<i>Symporicarpus Vulgaris</i> , 24 to 30 ins.		25.00
500	<i>Tamarix Africana</i> , 2 to 3 ft.		15.00
200	<i>Weigela Variegata</i> , 18 to 24 ins.		35.00
250	<i>Bignonia</i> <i>lanceolata</i> , No. 1/2		18.00
200	<i>Celastrus Orbiculatus</i> , No. 1.		20.00
200	<i>Celastrus Orbiculatus</i> , No. 1/2		18.00
100	<i>Dicentra Eximia</i> , 3 to 5 eyes.		25.00
100	<i>Dicentra Spectabilis</i> , 3 to 5 eyes.		25.00

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in bloom and the delicacy of this shrub would seem to deserve more attention in specimen or light mass plantings.

Propagation is by seeds sown in spring after being stratified over winter. Cuttings taken from forced plants during the winter root fairly well and much quicker and better than cuttings taken from outdoor plants in summer. Layers root slowly.

THE Schwarz Paper Co., Chicago, Ill., has added another branch house at Peoria, Ill., John A. Ronell, manager of the twine and cordage division, has announced. Other branch houses are maintained at Bloomington, Ill.; Kokomo and South Bend, Ind., and Madison, Wis.

## EVERGREENS

### Northern-grown

Canadian Hemlock	Per 100	Per 1000
American Arborvitae		
Balsam Fir		
2 to 4 ins., sdgs.	\$0.80	\$ 5.00
3 to 6 ins., sdgs.	1.50	10.00
6 to 9 ins., sdgs.	2.50	15.00
9 to 12 ins.	6.00	40.00
12 to 18 ins.	8.00	65.00

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, etc., on request.

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## LINING-OUT STOCK

S—Seedlings  
SWX—Softwoods, Transp. Spring, 1948  
(Unless otherwise specified [frame] all material large enough  
for field planting.)

350	<i>Acanthopanax Pent.</i> , SWX, 6 to 18 ins.	Per 1000	\$125.00
8700	<i>Berberis Atropurpurea</i> , 2-yr. S, 6 to 8 ins.		30.00
10,000	<i>Berberis Atro</i> (frame), 2-yr. S, 4 to 6 ins.		25.00
400	<i>Celastrus scandens</i> , 1-yr. S, 4 to 8 ins.		50.00
1000	<i>Cornus Alba Sibirica</i> , 1-yr. S, 12 to 18 ins.		50.00
2875	<i>Cornus Alba Sibirica</i> , 1-yr. S, 8 to 12 ins.		40.00
1400	<i>Cornus Alba Sibirica</i> , 1-yr. S, 6 to 10 ins.		50.00
800	<i>Cornus Stolonifera</i> , 1-yr. S, 6 to 12 ins.		50.00
2850	<i>Cornus Stolonifera</i> , 1-yr. S, 6 to 8 ins.		40.00
1400	<i>Cornus Stol. Flava</i> , 1-yr. S, 8 to 10 ins.		50.00
825	<i>Cornus paniculata</i> , 1-yr. S, 6 to 8 ins.		50.00
200	<i>Cotoneaster Adpressa</i> , 2 1/2-in. pots, 3 to 6 ins.		100.00
150	<i>Cotoneaster Hupehensis</i> , 2-yr. 2 1/2-in. pots.		100.00
2100	<i>Cydonia Japonica Dwarf</i> , 1-yr. S, 6 to 8 ins.		50.00
970	<i>Euonymus Alia Compacta</i> , SWX, 4 to 8 ins.		125.00
1290	<i>Hippophae Rhamnoides</i> , 1-yr. S, 6 to 8 ins.		50.00
275	<i>Hypericum Densiflorum</i> , SWX, 8 to 12 ins.		125.00
1000	<i>Ligustrum Iota</i> , 2-yr. S, 12 to 18 ins.		50.00
275	<i>Ligustrum Iota</i> , 2-yr. S, 8 to 12 ins.		40.00
1270	<i>Ligustrum Iota</i> , 1-yr. S, 6 to 8 ins.		50.00
485	<i>Lonicera Bella Albidia</i> , HC, 18 to 24 ins.		40.00
750	<i>Lonicera Morrowi</i> , HC, 6 to 12 ins.		40.00
175	<i>Lonicera Morrowi</i> , HC, 3 to 6 ins.		20.00
700	<i>Populus nigra Italica</i> , HC, 8 to 18 ins.		40.00
400	<i>Populus nigra Italica</i> , HC, 18 to 24 ins.		50.00
665	<i>Populus nigra Italica</i> , HC, 4 to 8 ins.		25.00
250	<i>Prunus Maritima</i> , 1-yr. S, 6 to 12 ins.		75.00
480	<i>Prunus Tomentosum</i> , 1-yr. S, 6 to 8 ins.		75.00
1285	<i>Rhamnus Cathartica</i> , 1-yr. S, 6 to 12 ins.		50.00
600	<i>Rhamnus Frangula</i> , 2-yr. SX, 12 to 18 ins.		100.00
250	<i>Rhamnus Frangula</i> , 1-yr. S, 6 to 10 ins.		50.00
975	<i>Rosa Carolina</i> , 1-yr. S, 6 to 8 ins.		50.00
1300	<i>Rosa glauca</i> , 1-yr. S, 6 to 8 ins.		50.00
450	<i>Rosa lucida</i> , 1-yr. S, 12 to 18 ins.		60.00
900	<i>Rosa lucida</i> , 1-yr. S, 8 to 12 ins.		50.00
1340	<i>Rosa Rubiginosa</i> , 1-yr. S, 6 to 10 ins.		50.00
1550	<i>Rosa Rubiginosa</i> , 1-yr. S, 8 to 12 ins.		60.00
1850	<i>Rosa Rubrifolia</i> , 1-yr. S, 8 to 10 ins.		50.00
3450	<i>Rosa Rubrifolia</i> , 1-yr. S, 6 to 8 ins.		40.00
1050	<i>Rosa Setigera</i> , 1-yr. S, 10 to 12 ins.		60.00
4300	<i>Rosa Setigera</i> (frame), 1-yr. S, 4 to 8 ins.		25.00
3470	<i>Rosa Setigera</i> , 1-yr. S, 8 to 10 ins.		50.00
650	<i>Salix Babylonica</i> , HC, 12 to 18 ins.		50.00
750	<i>Salix Babylonica</i> , HC, 12 to 18 ins.		40.00
615	<i>Salix Nigra</i> , HC, 6 to 18 ins.		50.00
300	<i>Salix Pendula</i> , HC, 6 to 12 ins.		40.00
400	<i>Salix pendulina</i> , HC, 3 to 6 ins.		25.00
775	<i>Spiraea Prunifolia</i> , SWX, 8 to 12 ins.		125.00
175	<i>Shepherdia Argentea</i> , 1-yr. S, 8 to 12 ins.		50.00
1150	<i>Shepherdia Argentea</i> , 1-yr. S, 6 to 8 ins.		50.00
500	<i>Spiraea Arguta</i> , SWX, 6 to 12 ins.		125.00
1000	<i>Spiraea Froebii</i> , SWX, 3 to 6 to 9 ins.		100.00
1400	<i>Symporicarpus Vulg.</i> , HC, 12 to 18 ins.		50.00
950	<i>Syringa Villosa</i> , stubby, 1-yr. S, 3 to 4 ins.		65.00
1000	<i>Tamarix Africana</i> , 1-yr. S, 2 to 4 ins.		40.00
2140	<i>Tamarix Africana</i> , HC, 18 to 24 ins.		50.00
400	<i>Tamarix Gallica</i> , HC, 6 to 12 ins.		40.00
1650	<i>Viburnum Americanum</i> , 1-yr. S, 4 to 6 ins.		65.00
1095	<i>Viburnum Dentatum</i> , 1-yr. S, 4 to 6 ins.		65.00
650	<i>Viburnum Enan-</i> (var.), 1-yr. S, 4 to 8 ins.		50.00
1550	<i>Viburnum Lantana</i> , 1-yr. S, 6 to 12 ins.		65.00
225	<i>Viburnum Sterile</i> , SWX, 4 to 8 ins.		125.00
7500	<i>Juniperus Virginiana</i> , 2-yr. S, 4 to 6 ins.		50.00
26,000	<i>Juniperus Virginiana</i> , 2-yr. Tr., 4 to 6 ins.		75.00

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THE TANKARD NURSERIES  
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WESTERN NEW YORK  
NURSERYMEN ELECT.

New officers of the Western New York Nurserymen's Association elected at the annual meeting held January 14 at the Hotel Seneca, Rochester, are: President, Merton L. Congdon, H. E. Congdon Nursery, North Collins; vice-presidents, Phillip White, White Nursery Service, Mecklenburg; Robert Auld, Kenmore, and Allyn P. Hoffman, Hoffman Nursery Co., Elmira, and secretary-treasurer, A. Synesael, Jackson & Perkins Co., Newark.

Elected as directors for a one-year term were E. B. Stedman, Newfane, and John W. Kelly, Dansville. T. Raymond Rice, Geneva, and R. L. Holmes, Newark, were chosen directors for two years. Alternate directors are Robert Auld, Merton L. Congdon, Phillip White and L. J. Engleson, Newark.

Delegates from western New York chapter 14 of the American Association of Nurserymen were elected as follows: Robert Auld, E. B. Stedman, Merton L. Congdon, Walter Gloor, Fredonia, and Richard Roberts, Dansville. Alternates for the coming year are R. L. Holmes, Newark; Ralph Perkins, Newark; John W. Kelly; Howard Maloney, Dansville, and Edward Monin, Kenmore.

A. Synesael, Sec'y.

## INDIANA ARBORISTS ELECT.

Meeting February 11 at the Hotel Roberts, Muncie, the Indiana Arborists' Association reelected O. G. Oettinger, Muncie Tree Surgery Co., Muncie, president. H. N. Engledow, Midwestern Tree Experts, Indianapolis, was elected vice-president, and N. G. Gilbert, Superior Tree Expert Co., Muncie, was named secretary-treasurer.

New directors of the one-year-old association are Vernon Townsend, Townsend Tree Service, Muncie; C. F. Sylvester, Goshen Tree Expert Co., and James H. Hickman, Indianapolis.

Members plan to cooperate with Purdue University, West Lafayette, in a program designed to benefit nurserymen, garden clubs, park superintendents, arborists and various horticultural groups. The meeting, which will be held at the university, will include a discussion of recommendations offered by state entomologists and the United States Department of Agriculture as measures in the control of diseases damaging elm trees throughout central Indiana. Information will be sought on how to check and possibly eliminate the Japanese

TAXUS  
In Landscape Sizes

(with J. B. certificate)

	Each
TAXUS cuspidata, spreading, 15 to 18 ins.	\$ 2.25
TAXUS cuspidata, spreading, 1 1/2 to 2 ft.	3.00
TAXUS cuspidata, spreading, 2 to 2 1/2 ft., extra-heavy.	4.85
TAXUS cuspidata, spreading, 2 1/2 to 3 ft., extra-heavy.	6.00
TAXUS cusp. capitata, 2 to 2 1/2 ft.	4.25
TAXUS cusp. capitata, 2 1/2 to 3 ft.	5.25
TAXUS cusp. capitata, 3 to 3 1/2 ft.	7.00
TAXUS cusp. capitata, 3 1/2 to 4 ft.	9.50
TAXUS cusp. capitata, 4 to 4 1/2 ft.	12.00
TAXUS cusp. capitata, 4 1/2 to 5 ft.	14.50
TAXUS cusp. capitata, 5 to 5 1/2 ft.	16.50
TAXUS cusp. capitata, 5 to 5 1/2 ft. (very compact spec.)	19.00
TAXUS cusp. capitata, 5 1/2 to 6 ft. (very compact spec.)	23.00
TAXUS cusp. capitata, 6 to 6 1/2 ft. (very compact spec.)	26.00
TAXUS cusp. columnaris, 4 1/2 to 5 ft.	15.00
TAXUS cusp. columnaris, 5 to 5 1/2 ft.	17.00
TAXUS cusp. columnaris, 5 1/2 to 6 ft.	20.00
TAXUS cusp. columnaris, 6 to 6 1/2 ft.	24.00
TAXUS media hicksi, 2 to 2 1/2 ft.	3.75
TAXUS media hicksi, 2 1/2 to 3 ft.	5.00
TAXUS media hicksi, 3 to 3 1/2 ft.	6.50
TAXUS media hicksi, 3 1/2 to 4 ft.	8.00
TAXUS media hatfieldi, 1 1/2 to 2 ft.	3.00
TAXUS media hatfieldi, 2 to 2 1/2 ft.	4.00
TAXUS media hatfieldi, 2 1/2 to 3 ft.	5.00
TAXUS cusp. intermedia, 15 to 18-in. spr.	2.75
TAXUS cusp. intermedia, 2 1/2 to 3 ft. spr.	7.00
TAXUS cusp. nana (brevifolia), 12 to 15 ins.	2.50
TAXUS cusp. nana (brevifolia), 15 to 18 ins.	3.50
TAXUS cusp. nana (brevifolia), 1 1/2 to 2 ft.	4.50
TAXUS cusp. nana (brevifolia), 2 to 2 1/2 ft.	6.25
THUJA occ. pyramidalis, 4 to 5 ft.	4.00
THUJA occ. wareana, 2 to 2 1/2 ft.	2.00
THUJA occ. wareana, 2 1/2 to 3 ft.	2.50
THUJA occ. wareana, 3 to 3 1/2 ft.	3.00
THUJA occ. wareana, 3 1/2 to 4 ft.	3.75

The above prices are for truckload or carload lots only.

## LINING-OUT TAXUS

(3-year-old transplants—best strain.)

	Per 100	Per 1000
TAXUS cuspidata, 12 to 18 ins.	\$55.00	\$500.00
TAXUS cuspidata capitata, 12 to 18 ins.	60.00	550.00
TAXUS cuspidata capitata, 18 to 24 ins.	70.00	650.00
TAXUS hatfieldi, 12 to 18 ins.	60.00	550.00

Many other items suitable for landscape trade—Write for price list.

## BULK'S NURSERIES, Inc.

BABYLON, L. I., N. Y.

## HOLLY, Hardy English

An Unusual Opportunity

Well rooted cuttings of 14 varieties of *Ilex aquifolium* identified by the Royal Botanic Garden. Parent trees growing in Pa., N. Y. and N. J. All old, sturdy stock whose hardiness will be transmitted through cuttings. Guaranteed true to name.

STURDY POT-GROWN STOCK  
2 each of 14 varieties..... \$ 25.00  
5 each (70 plants)..... 87.50  
10 each (140 plants)..... 175.00  
30 per cent discount to nurserymen.  
Immediate or spring shipment. Orders acknowledged and filled in sequence received. Net cash with order, or 25 per cent cash, balance C.O.D.

WILMAT HOLLY  
Box 27 Chestertown, Md.

Our latest list featuring  
Camellias, Evergreens,  
Container-grown Stock,  
Lining-out Stock and  
Nursery Supplies has  
just been printed.  
Write for one.

VERHALEN NURSERY COMPANY  
SCOTTSVILLE, TEXAS

Your Profits Grow In Verhaelen Plants

ORNAMENTAL  
EVERGREENS

## Trees &amp; Shrubs

## BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

2,000 ONE-YEAR APPLE ON DOUCIN (MALLING V)  
(STOCK GROWN BY US FOR 40 YEARS)

Cortland, Double Red Delicious, Jonathan, Red Rome,  
RED LAKE RED CURRANT, heavy,  
2-yr., No. 1

STANDARD APPLE TREES, various,  
1 1/4 to 3-in., 7 to 9 ft., bearing.

AMERICAN ARBORVITAE, up to 10 ft.  
LILACS ON OWN ROOTS, leading va-  
rieties, flowering up to 7 feet.

HEAVY PLANTS FOR LANDSCAPING.  
Write for List.

SAMUEL FRASER NURSERY  
GENESEO, N. Y.

## "Get to Know LEGHORN'S for Your Quality Evergreens"

With Spring just around the corner, now is the time to place your orders for lining-out stock. We have some exceptionally fine stock in the items listed below. Order now and look forward confidently to Spring with liners from LEGHORN'S.

<b>Taxus Cupidata</b>	Per 100	Per 1000	<b>Taxus Hatfieldi</b>	Per 100	Per 1000
2-yr., T. ....	\$30.00	\$250.00	2-yr., T. ....	\$ 30.00	\$250.00
3-yr., T, heavy, cutback, beautiful plants .....	35.00	300.00			
<b>Taxus Cupidata Nana</b>			<b>Taxus Capitata.</b>		
2-yr., T. ....	30.00	250.00	cutting type from leaders.		
4-yr., TT. ....	50.00	450.00	2-yr., T. ....	30.00	250.00
5-yr., TT. ....	65.00	600.00	5-yr., TT., 15 to 18 ins. ....	90.00	850.00
<b>Taxus Intermedia</b>			12 to 15 ins., seedling type	150.00	....
2-yr., T. ....	30.00	250.00	<b>Taxus Columnaris Mooni</b>		
5-yr., TT. ....	50.00	450.00	2-yr., T. ....	30.00	250.00
7-yr., TTT, 10 to 12 ins. ....	75.00	700.00	<b>Thuja Pyramidalis</b>		
<b>Taxus Hicksii</b>			2-yr., T. ....	30.00	250.00
2-yr., T. ....	30.00	250.00	4-yr., TT, 12 to 15 ins. ....	50.00	450.00
4-yr., TT. ....	50.00	450.00	<b>Thuja Boothii</b>		
6-yr., TTT. ....	90.00	850.00	2-yr., T. ....	30.00	250.00

We cannot accept orders for less than 100 of a size and variety. 250 plants furnished at the 1000 rate. Write in for prices on our B&B evergreens, also, as we believe we are growing some of the finest evergreens to be found.

**LEGHORN'S EVERGREEN NURSERIES**

Geer St.  
CROMWELL, CONN.

beetle, now said to be increasing in Indiana. Another subject for discussion will be the matter of ethics of the tree-treating business.

Paul Tilford, secretary-treasurer of the National Arborist Association, suggested that the Indiana arborists should become members of the National Shade Tree Conference, an organization that has been in existence for twenty-six years and has been of benefit to members and others in teaching various methods of tree treatment by sending out educational literature to members of the conference and to related groups.

Byron S. Traster.

### GEORGIA CAMELLIA SHOW.

An exhibit of specimen camellia blooms, displayed by S. D. Coleman's Nursery, Fort Gaines, Ga., was a feature of the camellia show held January 27 by the Garden Club of Fort Gaines. Camellia plants were donated as prizes by Wight's Nursery, Cairo; S. D. Coleman's Nursery and Mermac's, Fort Gaines. Corsages of camellias were displayed by Mermac's and Highland Florist, Cuthbert.

Over 500 persons, representing eight states, attended the show, which was held in the assembly room of the Cornelia Clubhouse.

### GUARANTEED LINING-OUT STOCK - SPRING, 1949

Per 1000

Balsam Fir, 3-yr. transplants (2-1), 2 to 4 ins. ....	\$40.00
White Spruce, 4-yr. transplants (2-2), 3 to 6 ins. ....	50.00
Banks Pine, 4-yr. transplants (2-2), 12 to 18 ins. ....	40.00
Red Pine, 4-yr. transplants (2-2), 4 to 10 ins. ....	65.00
Mugho Pine, 3-yr. seedlings (3-0), 2 to 5 ins. ....	20.00
Mugho Pine, 3-yr. transplants (2-1), 2 to 4 ins. ....	35.00
Scotch Pine, 3-yr. transplants (2-1), 4 to 8 ins. ....	50.00
Black Hill Spruce, 4-yr. transplants (2-2), 3 to 6 ins. ....	50.00
Engelmann Blue Spruce, 4-yr. transplants (2-2), 3 to 5 ins. ....	70.00
Norway Spruce, 3-yr. seedlings (3-0), 2 to 4 ins. ....	18.00

Terms: Cash with order, or 50 per cent with order and the balance C.O.D.

250 of one kind and size may be purchased at the 1000 rate.

### OUR GUARANTEE

Ninety per cent of all trees (except seedlings) sold at regular wholesale prices, as quoted in this list, are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1, 1949.

Several other varieties available. Send for complete list of stock.

**WESTERN MAINE FOREST NURSERY CO., Dept. AN-39 Fryeburg, Maine**

### FOR 51 YEARS

*Our business has been growing*

**Rhododendrons**

**Azaleas**

**Perennials, Roses**

**All Nursery Items**

**BOBBINK & ATKINS**  
E. RUTHERFORD, N. J.

### SMALL FRUIT PLANTS

Thirty varieties of Grapes including the

**GOLDEN MUSCAT**

also

**Currants and Berry plants**

**FOSTER NURSERY CO., Inc.**  
FREDONIA, N. Y.

# Coming Events

## MEETING CALENDAR.

March 2, Western Pennsylvania Nurserymen's Association, Webster Hall hotel, Pittsburgh, Pa.

March 3 and 4, Canadian Association of Nurserymen, Royal York hotel, Toronto, Ont.

March 23 to 25, Southern Shade Tree Conference, Gainesville, Fla.

May 25 to 28, Western Shade Tree Conference, Hotel Senator, Sacramento, Calif.

June 10 and 11, Alabama State Nurserymen's and Florists' Association, Whitney hotel, Montgomery.

## CYMBIDIUM SHOW DATES.

Because of severely cold weather, the dates for the annual Santa Barbara cymbidium orchid show have been postponed to March 31 to April 3. The show will be held at Recreation Center auditorium, East Carrillo street, Santa Barbara, Calif.

Some of the finest cymbidiuns from the United States, England, Holland and Belgium will be shown.

## WESTERN PENNSYLVANIA PLANS SPRING MEETING.

Charles Scherer, of the Pittsburgh credit bureau, will be the first speaker on the program for the spring meeting of the Western Pennsylvania Nurserymen's Association March 2 at the Webster Hall hotel, Pittsburgh. Mr. Scherer's talk, "Establishing a Credit System for the Association," will follow a business session held at 2 p. m.

"Opportunities for Nurserymen" will be the subject of an address by Norman Scott, manager of Brookdale-Kingsway, Ltd., Bowmanville, Ont., Canada, who will be the principal speaker on the program. The nurserymen will see a sound and color travelog on Mexico, shown through the courtesy of the Gulf Oil Corp., Pittsburgh. A meeting of members of the American Association of Nurserymen will follow.

After a dinner at 6 p. m., Edward H. Stringer, American Chemical Paint Co., will speak on "Weed Control Through the Use of 2,4-D Concentrates," illustrating his talk with colored moving and still pictures.

## CANADIAN PROGRAM.

A dinner meeting for the board of directors March 2 will precede the twenty-sixth annual meeting of the Canadian Association of Nurserymen March 3 and 4 at the Royal York hotel, Toronto, Ont. Registration will be held Thursday morning

and will be followed by a business session, the annual report of President Spencer McConnell and the report of Secretary-treasurer L. F. Burrows.

Standing committees will then report as follows: Tariff, William Haist; trade practices, S. C. Wellington; highway planting, John Connon; research, J. V. Stennson; finance, W. B. Wellington; membership, W. A. Hogle; plant patents, H. M. Eddie, and standards for tree fruit and nursery stock, A. B. Luke.

Beginning the afternoon session, President McConnell will review the meeting of the Canadian Horticultural Council. Professor Shoemaker, head of the department of horticulture, Ontario Agricultural College, Guelph, will conduct a short course for nurserymen.

"Mist, Light, Vermiculite and Sphagnum as Aids to Propagation" will be the subject of a talk by Prof. F. L. O'Rourke, coordinator of nursery and landscape management at Michigan State College, East Lansing. Then Professor Shoemaker will again take the floor for a description of nursery work in the de-

partment of horticulture at Ontario Agricultural College. A film, "A Spring Season at Cloverset," shown through the courtesy of Cloverset Flower Farm, Kansas City, Mo., will conclude the afternoon session.

Guest speaker for the dinner to be held at 7 p. m. will be Richard P. White, executive secretary of the American Association of Nurserymen, Washington, D. C., who will talk on "The Value of Organization." Entertainment will follow.

Professor O'Rourke will open the Friday morning session with an address on new methods and materials of interest to nurserymen. W. R. Leslie, superintendent of the Dominion experimental station, Morden, Man., will illustrate his talk on "Hardy Ornamentals and Fruits" with slides. Next on the program will be M. B. Davis, Dominion horticulturist, Central Experimental Farms, whose subject will be new varieties of ornamentals.

After luncheon, Major Lidell, Niagara parks department, will speak

## EVERGREENS

Hardy, northern, collected stock.

Canadian Hemlock

American Arborvitae

Balsam Fir

	Per 100	Per 1000
2 to 4 ins., sdgs.....	\$0.80	\$ 5.00
3 to 6 ins., sdgs.....	1.50	10.00
6 to 9 ins., sdgs.....	2.50	15.00
9 to 12 ins.....	6.00	40.00
12 to 18 ins.....	8.00	65.00

All first-quality stock, well rooted and packed in sphagnum moss.

Cash, please.

## R. M. COLE

Box 37 CHARLOTTE, VT.

### We Offer—

EVERGREENS — In a large assortment of PYRAMIDAL and GLOBE ARBORVITAE, PITTZER JUNIPER and YEW in grades at attractive prices. SOME LARGE SPECIMEN EVERGREENS, SHRUBBERY and SHADE TREES.

Mail want list for prices.

THE WESTMINSTER NURSERIES  
Westminster, Md.

## PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations

LESTER C. LOVETT  
MILFORD DELAWARE



## LINERS

BROUWER'S NURSERIES

(E. John Brouwer)

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NEW LONDON, CONN.

# SCARFF'S Nursery



Headquarters for Small Fruit Plants

**RED and BLACK RASPBERRY PLANTS**

**BOYSENBERRIES, 1 and 2-yr.**

—Common and Thornless—

**BLUEBERRIES, 12 to 18 ins. and 18 to 24 ins.**

**BLACKBERRIES—JUNEBERRIES**

## ORNAMENTAL SHRUBS

Here are a few items in surplus. Send your list for lowest quotations.

*Forsythia Spectabilis*, 2 to 3 and 3 to 4 ft.

*Ligustrum, Amur R. N.*, 2 to 3 ft.

*Lonicera Fragrant.*, 2 to 3 ft.

*Salix Caprea* (French Pussy Willow), 3 to 4 ft.

*Pyramidal Arborvitae*, 3-ft. and 4-ft. sizes. Well filled out. Good color. Truck or carlots.

*Lonicera Tat. Rubra*, 3 to 4 ft.

*Lonicera Zabeli*, 12 to 18 ins., 18 to 24 ins., 2 to 3 ft.

*Magnolia Soul. Niara*, 2 to 3 ft.

(Well branched, B&B)



## FRUIT TREES

Well Grown—Heavily Rooted.

	11/16-in.	9/16-in.	7/16-in.
Montmorency Cherry, 2-yr.	\$0.90	\$0.75	\$0.60
August Supreme Cherry (sweet), hvy., 1-yr.	.90	.80	.65
Old Home Pear, 2-yr.	.75	.60	.40
Bradshaw Plum, 2-yr.	.80	.70	.60
Imperial Pineapple Plum, 2-yr.	.80	.70	.60
Stanley Plum, 2-yr.	.80	.70	.60

**W. N. SCARFF'S SONS, New Carlisle, Ohio**

on "Horticulture Education in Connection with the Parks Department"; E. F. Palmer, Vineland experimental station, Ontario, on "New Varieties of Fruits," and W. A. Ross, chief of the fruit insect investigations, department of agriculture, on "Progress with New Insecticides."

The meeting will be adjourned after a discussion of new business and election of officers.

## CALIFORNIA NURSERYMEN PLAN REFRESHER COURSE.

The California Association of Nurserymen will sponsor the first refresher course for the nursery industry to be conducted in California on May 10 and 11. In cooperation with California Polytechnic School, San Luis Obispo, the association has planned a well rounded 2-day program which will cover the following subjects: Growing cuttings without bottom heat, growing cuttings with bottom heat, budding, seeding (principally flats), plant breeding and selecting genetics, soils and amendments, salesmanship, nursery management (wholesale and retail), bookkeeping and business management, greenhouse management and new developments in pest control.

Each of these subjects will be cov-

# ROSES

## WHOLESALE ONLY

2-year, field-grown

Four Generations Growing America's Finest Roses.

## CARL SHAMBURGER NURSERY TYLER, TEXAS

## TAXUS MEDIA HALLORAN

The past winter proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

VERKADE'S NURSERIES

NEW LONDON, CONN.

## Old English BOXWOOD

(Wholesale Only)

SELLING OUT. Specimens 20 x 16 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

BOXWOOD GARDENS

Mrs. R. P. Rayer High Point, N. C.

## The CHRYSANTHEMUM CATALOG you cannot afford to be without.

WONDERLAND NURSERIES  
Ellerson, Va.

## PENNSYLVANIA SEEDLINGS and TRANSPLANTS

grown at High Altitude, in the heart of the  
ORIGINAL PENNSYLVANIA PINE FORESTS

	Per 100	Per 1000
<b>American Red Pine</b> , 2-yr., 2 to 5 ins....	<b>\$4.00</b>	<b>\$30.00</b>
<b>Scotch Pine</b> (Sylv.), 2-yr., 2 to 3 ins....	<b>2.00</b>	<b>18.00</b>
<b>Scotch Pine</b> (Sylv.), 2-yr., 3 to 6 ins....	<b>3.00</b>	<b>25.00</b>
<b>Norway Spruce</b> , 2-yr., 2 to 5 ins.....	<b>3.00</b>	<b>25.00</b>
<b>Douglas Fir</b> , 2-yr., 3 to 7 ins.....	<b>3.00</b>	<b>25.00</b>
<b>Mugho Pine</b> , 2-yr., spreading.....	<b>2.50</b>	<b>20.00</b>

Send for list of transplants.

### EXCELLENT ROOT SYSTEMS, STURDY PLANTS.

500 at 1000 rate. No charge for packing or boxing when cash accompanies order; otherwise, one-half cash with order, balance C.O.D.

### SCHROTH'S NURSERY

Nursery: Pine Flats, Pa.

INDIANA, PA.

## TAXUS LINERS 20 VARIETIES — SEND FOR LIST

We offer 70,000 taxus in 20 choice varieties, some 1-year and 2-year pots, some twice transplanted. Also a limited quantity of finished taxus. Write for complete wholesale list.

EAGLE CREEK NURSERY CO., Inc.  
NEW AUGUSTA, INDIANA

### CANADA HEMLOCKS QUALITY PLANTS

	Per 10	Per 100
2 to 3 ft., B&B.....	\$2.25	\$2.00
3 to 4 ft., B&B.....	3.00	2.75
4 to 5 ft., B&B.....	3.75	3.50

Old English Boxwood, Hollies, Magnolias and Azaleas. Write for prices on large quantities.

BOXWOOD NURSERIES  
MOCKSVILLE, N. C.

### CHINESE CHESTNUT TREES

Blight-resistant.

### TREES — TRANSPLANTS — LINERS

### THE GOLD CHESTNUT NURSERY

Cowen, W. Va.

### PRONOUNCING DICTIONARY of Plant Names

64 pages, 3000 names, 25¢ per copy

American Nurseryman Chicago 4.

ered by a qualified speaker, either from or outside the nursery industry, and will consist of a lecture period of forty to forty-five minutes and a question-and-answer period of fifteen to twenty minutes.

Sessions are not limited to members of the association, but will be open to everyone. It is important, however, that advance reservations be made so that room in the lecture halls can be provided for those who will attend the session. Housing arrangements will be handled by the housing committee, but will not be on the school's campus. Hotel and motel accommodations off the campus will be arranged. However, meals will be served at the school's cafeteria.

On the theory that all work and no play is not good for anyone, recreation activities are also planned.

All nursery owners have been invited to bring any of their personnel who they feel should attend the course. Further information on the speakers and program will appear in a later issue of the American Nurseryman. Anyone interested in attending may contact either Elmer Merz, executive secretary, California Association of Nurserymen, 304 Mitau building, Sacramento, or Howard Brown, California Polytechnic School, San Luis Obispo.

### SOUTHERN SHADE TREE CONFERENCE PLANS.

The annual meeting of the southern chapter of the National Shade Tree Conference will be held March 23 to 25 at Gainesville, Fla., according to Dr. George Langford, president. Dr. John Creighton, head of the department of entomology, University of Florida, Gainesville, is in charge of the program. Dr. S. F. Potts will assist with the part of the program which is to be devoted to the use of the mist blower in the south.

### ALABAMA DATES SET.

The annual meeting of the Alabama State Nurserymen's and Florists' Association will be held June 10 and 11 at the Whitney hotel, Montgomery, it was decided at a joint meeting of the executive, legislative and arrangements committees January 29 at the Whitney hotel.

Committee members present were C. E. Stephens, R. O. Blackwell, Jr., and Thomas Dodd, Jr., Semmes; Glen Harris, Preben Ibsen and Hardy Demeraville, Mobile; John Fraser, Jr., Huntsville; W. W. Paterson, B. P. Livingston, Emmett Pfinstle, T. D. Johnston and "Sonny" Pater-



## ROSES

All our roses are 2-year, field-grown, budded on multiflora de-eyed rootstock. All stock is dug, graded and in storage for immediate shipment.

### Prices

	Per 10	Per 100	Per 1000
2-year, No. 1.....	\$4.00	\$37.50	\$350.00
2-year, No. 1 1/2.....	3.00	27.50	250.00

### RED EVERBLOOMING ROSES

Varieties	No. 1	No. 1 1/2
American Beauty.....	1690	200
Ami Quinard.....	1470	200
Charles K. Douglas.....	200	100
Christopher Stone.....	290	50
E. G. Hill.....	345	50
Etoile de Hollande.....	1660	2000
Francis Scott Key.....	100	...
Grenoble.....	2280	500
Gruss an Teplitz.....	350	...
Hadley.....	540	100
Poinsettia.....	1876	400
Red Radiance.....	9640	400
Rubra Druschi.....	200	...
Rouge Mallerin.....	1250	300

### YELLOW SHADES, EVERBLOOMING ROSES

Varieties	No. 1	No. 1 1/2
Golden Dawn.....	890	200
Golden Ophelia.....	1240	400
Luxembourg.....	1160	200
Mrs. Pierre S. du Pont.....	420	200
Soeur Therese.....	410	150
Sunburst.....	300	200
Golden Charm.....	2710	500

### WHITE EVERBLOOMING ROSES

Varieties	No. 1	No. 1 1/2
Frau Karl Druschi.....	1320	50
Kaisserin A. Viktoria.....	5142	500
White Radiance.....	750	...
Conard's White.....	1320	...

### PINK EVERBLOOMING ROSES

Varieties	No. 1	No. 1 1/2
Briarcliff.....	890	500
Columbia.....	950	100
Editor McFarland.....	3500	300
Mrs. Chas. Bell.....	2000	400
Paul Neyron.....	900	50
Pink Radiance.....	6000	2000
Betty Uprichard.....	200	100

### VARIEGATED COLORS EVERBLOOMING

Varieties	No. 1	No. 1 1/2
Condessa de Sastago.....	360	50
Edith Nellie Perkins.....	2000	600
Margaret McGredy.....	500	...
President Herbert Hoover.....	3000	1000
Talisman.....	3500	900

### EVERBLOOMING CLIMBING ROSES

Varieties	No. 1	No. 1 1/2
Cl. White Prosperity.....	400	...
Cl. Ami Quinard.....	1000	...
Cl. Columbia.....	500	300
Cl. Etoile de Hollande.....	200	100
Cl. Golden Charm.....	1000	50
Cl. President Hoover.....	530	50
Cl. Pink Radiance.....	1100	50
Cl. Talisman.....	2000	100
Cl. Kaiserin A. Viktoria.....	50	...
Cl. Cecile Brunner.....	50	...
Cl. Red Radiance.....	1500	100

### CLIMBING ROSES—

### NOT EVERBLOOMING

Varieties	No. 1	No. 1 1/2
Cl. American Beauty.....	500	...
Cl. Crimson Rambler.....	200	30
Cl. Paul's Scarlet.....	5000	2000

### BABY OR DWARF POLYANTHAS

Varieties	No. 1	No. 1 1/2
Ideal.....	900	100
Golden Salmon.....	1000	100

Stigler, Okla.

J. E. CONARD & SON

son, Montgomery, and L. L. Aldridge, Bessemer.

### TEXAS OFFICERS PLAN.

Officers and members of the board of directors of the Texas Association of Nurserymen met January 28 at Austin, Tex., to make plans for the association's annual convention, which will be held August 22 to 24 at the Driskill hotel, Austin.

Space for exhibits is to be available on the hotel's mezzanine floor, where all meetings will be held.

Those who remained at Austin after the meeting were guests of Vice-president Murray Ramsey and Mrs. Ramsey for a Mexican dinner at one of the city's famous inns.

### LAY PLANS FOR 1950 EASTERN CONVENTION.

At a meeting February 5 at the Hotel Statler, New York city, the committee chairmen for the 1949 eastern nurserymen's convention discussed the convention of the eastern regional nurserymen held there in January and made preliminary plans for next year's convention, which will be held January 4 to 6 at New York city. Valleau C. Curtis, chairman, and Marie Enberg, secretary,

## HEMLOCKS and JUNIPERS

### TSUGA CANADENSIS

	Each
3 to 4 ft.....	\$ 5.00
4 to 5 ft.....	7.50
5 to 6 ft.....	9.00
6 to 7 ft.....	12.50

### JUNIPERUS PFITZERIANA

18 to 24 ins.....	2.00
24 to 30 ins.....	2.50
30 to 36 ins.....	3.00

### JUNIPERUS HORIZONTALIS PLUMOSA

24 to 30 ins.....	2.50
30 to 36 ins.....	3.00

Price in lots of 100.

F.O.B. our nursery.

CHAGRIN VALLEY NURSERY

Gates Mills, Ohio

### Northern-grown Stock

Send  
for  
Price  
List.

J. V. BAILEY NURSERIES  
St. Paul 6, Minn.

### SPECIMEN LANDSCAPE MATERIALS

Our Specialty

TAXUS

W. A. NATORP CO.  
Cincinnati 29, Ohio

**FLOWERING SHRUBS****Are Scarce**

Listed below are some of the finest shrubs that it has been our pleasure to grow. This offer as long as they last.

**ALMOND, Pink Flowering.**

	Per 100
18 to 24 ins.	\$30.00
2 to 3 ft.	35.00
3 to 4 ft.	45.00

**FORSYTHIA Intermedia, Golden Bell.**

	Per 100
18 to 24 ins.	10.00
2 to 3 ft.	15.00
3 to 4 ft.	20.00

**SPIRAEA, Vanhouttei**

	Per 100
12 to 18 ins., well br.	7.00
18 to 24 ins., well br.	10.00
2 to 3 ft., well br.	15.00

**LILAC, ROTHOMAGENSIS.**

	Per 100
12 to 18 ins., br.	15.00
18 to 24 ins., br.	25.00
2 to 3 ft., br.	35.00
3 to 4 ft., br.	45.00

**HEDGE PLANTS**

Some of the finest hedging we have ever seen. Special quotations on quantity lots.

**LIGUSTRUM OVALIFOLIUM.**

	Per 1000
R.C. and single stems.	\$15.00
6 to 12 ins., 2 br. up.	20.00
Grafting size, about 3 to 16-in.	20.00
Grafting size, 1 to 4-in. and up	25.00
12 to 18 ins., 2 br.	25.00
12 to 18 ins., 3 br. up.	30.00
18 to 24 ins., 2 br.	30.00
18 to 24 ins., 3 br. up.	40.00
2 to 3 ft., 2 and 3 canes.	45.00
2 to 3 ft., 4 br. up.	50.00

**LIGUSTRUM AMURENSE.**

	Per 1000
R.C. and single stems.	17.50
6 to 12 ins., 2 br. up.	25.00
12 to 18 ins., 2 br.	35.00
12 to 18 ins., 3 br. up.	45.00
18 to 24 ins., 2 br.	45.00
18 to 24 ins., 3 br. up.	60.00
2 to 3 ft., 2 and 3 canes.	65.00
2 to 3 ft., 4 br. up.	75.00

**SHADE TREES**

Here are the fine trees you can use to advantage in your sales, either mail-order or salesyard. All 2-year transplants, well branched.

**ACER DASYCARPUM.** Silver Maple.

	Per 100
5 to 6 ft., br.	\$ 30.00
6 to 8 ft., br.	40.00
8 to 10 ft., br.	50.00

**ULMUS PUMILA.** Chinese Elm.

	Per 100
(2-year trans.)	
4 to 5 ft., br.	40.00
5 to 6 ft., br.	50.00
6 to 8 ft., br.	75.00

**SALIX ELEGANTISSIMA.**

	Per 100
4 to 5 ft.	40.00
5 to 6 ft.	50.00
6 to 8 ft.	60.00

**SALIX BABYLONICA.**

	Per 100
Babylon Weeping Willow.	
5 to 6 ft.	60.00
6 to 8 ft.	75.00
8 to 10 ft.	100.00

3 per cent discount for cash.

WRITE FOR OUR NEW SPRING FOLDER

**Boyd**  
NURSERY COMPANY  
McMINNVILLE, TENNESSEE

treasurer, will continue as convention officers during the coming year.

Those present at the meeting included Luke May, president of the Massachusetts Nurserymen's Association; Peter van Melle, secretary-treasurer of the New York State Nurserymen's Association; Fred Noble, president of the New Jersey Association of Nurserymen; Louis Vanderbrook, secretary of the New England Nurserymen's Association; Charles Hess, of the New Jersey association; Charles Boardman, first vice-president, and Frank LaBar, of the Pennsylvania Nurserymen's Association; Marie Enberg, and Valleau C. Curtis.

**MICHIGAN FORUM ELECTS.**

At a meeting of the Landscape Nursery Forum, Michigan State College, East Lansing, Mich., held January 18 the following officers were elected: Chairman, John Venman, Detroit; vice-chairman, Edward Koch, East Lansing; secretary, William Hartfelder, Flint, and treasurer, David Ketzler, Flint. Carl Rothe and Roger Thayer, both of Grand Rapids, and Robert Frantz, Perrysburg, O., were chosen members of the executive committee.

Prof. F. L. O'Rourke, forum adviser, announced that the group has a number of projects planned for the coming year, the most important of which is participation in the Detroit garden and flower show.

**SUBURBAN GARDENING.**

A course on suburban gardening and farming has been conducted during the past seven weeks at West Tech Greenhouse and Harvey Rice Gardens, Cleveland, O. The classes were held from 7 to 10 p. m. on Mondays at West Tech Greenhouse and on Tuesdays at Harvey Rice Gardens, with Darien H. Smith and Herbert G. Meyer as principal instructors.

Subjects covered at the classes included planning suburban grounds, improving land, growing vegetables and fruits, garden tools and equipment, controlling insect pests and diseases and canning and freezing produce.

**PRIZES** at the recent formal opening of Fred's Flower Shop & Nursery, 3550 Florida street, Baton Rouge, La., included a \$100 complete landscaping service, camellia and azalea plants and orchid corsages. Free flowers were given to women visitors. Fred Heroman, Jr., is owner of the new firm.

**PEONIES**

We have 3000 of the following Good Standard varieties.  
3 to 5 eyes.

130	Baroness Schroeder
140	Bunker Hill
340	Edulis Superba
80	Festiva Maxima
10	Georgiana Shaylor
290	Lady Alex. Duff
140	Longfellow
70	Mme. de Verneville
60	Marie Jacquin
370	Mons. Jules Elie
140	Reine Hortense
60	Samuel Hughes
150	Sarah Bernhardt
50	Snow Wheel
180	Soulange
100	Venus
150	Alsace-Lorraine
50	Frances Willard
120	Kelway's Glorious
10	La Cygne
60	Souv. L. Bigot
60	Taikoon
30	Therese
60	Tourangelle
220	Walter Faxon

20c each for whole lot, or 25c each for selected varieties. Packing at cost.

**HILLENMEYER NURSERIES**  
LEXINGTON, KY.

**ORNAMENTAL EVERGREENS**

Liners and B&B

•  
**BROWN DEER NURSERIES**  
P. O. Box 1747  
Milwaukee 1, Wis.

**VIBURNUM BURKWOODI**

New—Fragrant—Hardy  
Pinkish-white flowers in May  
Heavy pot-grown stock for lining out. Spring 1949 delivery.  
Per 100 Per 1000  
2½-in. pots \$30.00 \$250.00  
F.O.B. Dayton, Ohio

No charge for packing if check accompanies order.

**THE SIEBENTHALER COMPANY**  
Dayton 5, Ohio

# Woodruff has the answer to your problem

Generations of turf superintendents have turned to Woodruff for the answer to any puzzling lawn or turf problems. They know Woodruff has the answer, and has the seed. We'd like to be of service to you.

## LAWN SEED DIVISION

### F. H. WOODRUFF

TOLEDO  
ATLANTA  
BELLEROSE, L. I.  
AND SONS, INC.  
MILFORD, CONN.  
SEED GROWERS  
MERCEDES, TEX.  
SACRAMENTO  
DALLAS



#### NEW ENGLAND MEETING.

[Continued from page 7.]

time, for the planting foreman would know exactly how the plant was burlapped and just where the last tie was made and could make one cut with his knife to remove the burlap in one place, saving minutes on the job.

The appearance of stock is all important as far as the customer is concerned, and so more care should be given in digging, burlapping, loading, tying or untying and all the steps leading up to delivery to the job.

Mr. Tobey said that the nurseryman could learn a lot about merchandising from florists and from other industries. He believed that the rose growers are merchandising their materials in a more efficient manner than any other branch of the nursery industry has attempted.

Turning slightly from his topic Mr. Tobey said that the nurseryman should be sure that his planting crew is courteous and efficient, for often it is the only representative that the customer sees, and the nursery can build up a good reputation through proper representation.

Summing up, he said, "No matter how well plants are grown and taken care of in the nursery, if they are not properly dug, either bare-

#### PURE KENTUCKY BLUEGRASS LAWN SEED

Is grown by us and handled very carefully for the lawn trade.

This is high-quality heavy-test weight and you will appreciate this all Kentucky-grown seed. Price F.O.B. here, subject to market change and being unsold. 10 lbs., \$6.50; 25 lbs., \$15.00; 50 lbs., \$28.00; 100 lbs., \$53.00.

#### WALNUT LAWN FARM Route 2, N.

LEXINGTON, KY.

#### "GRO-QUICK" ELECTRIC SEED BED HEATER

#### SPECIAL PROPAGATING CABLES

A6	15 w. for 1.5 sq. ft.	\$1.00
B12	30 w. for 3. sq. ft.	1.80
M26	60 w. for 6. sq. ft.	2.80
J56	140 w. for 14. sq. ft.	3.00
S112	280 w. for 28. sq. ft.	6.00
AT	1000 w. Air Thermo. with pilot.	4.50
BT	1000 w. Soil Thermo. with pilot	9.50

Plans—valuable experience reports—Free.

GRO-QUICK, 366 W. Huron St., Chicago 10, Ill.

#### LILY SEEDS

We offer the most complete listing of lily seeds available on the American market.

Revised spring price list sent promptly upon request.

EDGAR L. KLINE  
Lily Specialist LAKE GROVE, ORE.

#### LAWN SEED

Blended to Your  
Specifications  
—or—

Standard Lawn Seed  
Mixtures priced for  
NURSERYMEN  
LANDSCAPE GARDENERS

A. J. BROWN & SON, Inc.  
128 Coldbrook, N.E.  
GRAND RAPIDS, MICH.

#### Send for Our Seed List.

A. B. C.  
"Supreme" Quality  
SEEDS—PLANTS—BULBS  
and  
Growers' Accessories

AMERICAN BULB CO.  
1335 W. Randolph St., CHICAGO 7  
31 W. 27th St. NEW YORK 1

#### SEEDS

Collectors of Tree, Shrub and  
Wild Flower Seeds  
Crude Drugs and Ornamentals

E. C. MORAN Stanford, Mont.

## FAIR VIEW NURSERIES, Inc.

R. R. 11 FORT WAYNE, IND.  
Day or night phone: Anthony 6175

### SURPLUS STOCK MUST BE SOLD

	Per	Per
Berberis Thunbergii, 2-yr. bed-grown	100	1000
5800 18 to 24 ins., branched	\$ 5.00	\$35.00
6000 15 to 18 ins., branched	4.00	25.00
4300 12 to 15 ins., L.O.	3.00	18.00
4900 6 to 8 ins., L.O.	2.00	10.00
Spiraea Billardi, pink.		
1700 1-yr. hardwood cuttings, 18 to 24 ins.	8.00	65.00
2095 1-yr. hardwood cuttings, 15 to 18 ins.	6.00	45.00
Lonicera Zabelii, red		
400 1-yr. hardwood cuttings, 18 to 24 ins.	15.00	...
620 1-yr. hardwood cuttings, 15 to 18 ins.	10.00	...
Deutzia Lemoniae		
515 1-yr. hardwood cuttings, 18 to 24 ins.	15.00	...
Spiraea Vanhouttei		
648 1-yr. hardwood cuttings, 18 to 24 ins.	7.50	...
300 1-yr. hardwood cuttings, 16 to 18 ins.	5.00	...
Vitis Agnus-castus		
250 1-yr. hardwood cuttings, 18 to 24 ins.	10.00	...
SWEET CHERRY		
Black Tartarian, Gov. Wood, Schmidt.		
SOUR CHERRY		
Montmorency, Early Richmond.		
Per 10 Per 100		
11/16-in. and up	\$10.00	\$90.00
9/16-in.	7.50	65.00
7/16-in.	5.00	40.00
PEACH		
1-yr. dormant buds.		
Elberta, J. H. Hale, Champion, Rochester, Redhaven, Southhaven.		
9/16-in. cal.	3.00	25.00
All the above stock is in storage and can be shipped any time.		

### TO BE SPRING-DUG

APPLE, 2-yr.-old.	Per 10 Per 100
Yellow Transparent, Maiden Blush, Grimes Golden, Golden McIntosh, Red Delicious, Red Red Delicious, Yellow Delicious, Stayman Winesap, Jonathan, Winter Rambo, Red Astrachan, Cortland.	\$4.00 \$35.00
11/16-in.	3.50 25.00
7/16-in.	2.50 20.00

PEAR, 2-yr.-old.	Per 10 Per 100
Bartlett, Kieffer, Flemish Beauty, Sheldon, Seckel.	6.00 50.00
11/16-in.	5.00 40.00

All the stock we list herein is up to grade and is grown at our nursery.  
Cash with order earns free baling and boxing.

### OUR WANT LIST

Lining-out Evergreens ready for the field: JUNIPERS — Pfitzer, Sabina, Glauca, Canaertii, Hilli, Greek, Burki; ARBORVITAE — Pyramidal, Bota Aurea Nana, TAXUS CAPITATA and any other hardy northern evergreens. Also 2,000 good 2-yr. Roses for potting.

rooted or balled, and not properly handled between the field and the shed, the shed and the truck and then from the truck to the job, it does not make much difference how good the plants are, if anywhere along the line they are mishandled and abused. All the good work done by the men growing the plants in the nursery has been broken down."

The audience participation for which the chairman and secretary had called was immediately evidenced after the first talk, when a number in the audience asked questions and made suggestions. Mr. Myrich, Littlefield-Wyman Nurseries, Abington, Mass., asked how one could encourage one's workmen in the nursery to handle plants carefully and with respect. Mr. Tobey said he believed it was a matter of educating the men to the fact that they were handling real merchandise that had only as much value as its appearance to the customer. The customer may not know a hemlock from a taxus, but he does know if the plant looks nice. Russell Harmon, LaBars' Rhododendron Nursery, Stroudsburg, Pa., suggested telling the workmen that they are handling money when they handle plants, and they would not throw dollar bills around on the ground or tear them up, as they sometimes do the plants.

The subject of selling trees bare-rooted or balled and burlapped came in for considerable discussion. That B&B stock costs more to ship was one point, but a number of the landscape nurserymen agreed that B&B stock made a better appearance to the customer, and so selling plants in this manner was a matter of good merchandising. A lilac plant of two or three feet does not look like much when it is bare root, but the same plant in foliage with ball and burlap will bring quite a bit more money.

### Satisfying the Customer.

Selling was the subject of the second speaker, Willard Bond, Bay State Nurseries, Inc., North Abington, Mass. His remarks were primarily for the retailer, but many of them could apply to the wholesaler, too. During recent years, he believes, the nursery industry has done a fairly good job of satisfying the customers with the facilities and labor that it had, but now it is faced with declining sales, high costs and increased competition for the available dollar. It is good salesmanship along with service that will bring in this dollar. Mr. Bond said he believed there were too many nurserymen in the retail business who were living on inherited reputations, and if this kept up, they



Growers of a complete line of deciduous and coniferous species.

## JEWELL NURSERIES, INC.

Lake City, Minn.

### IN CARLOTS

American Elm, 1 1/4 and 1 1/2-in. Thurlow Willow, 5 to 6 ft., up to 1 1/2-in.

Apple, 2 and 3-yr., XX, 11/16 and 9/16-in.

Peach, 5/16 up to 9/16-in.

Lesser Quantities of:

Pear, Plum and Cherry.

Berberis Thunbergii, 12 to 18 and 18 to 24 ins.

Forsythia, Honeysuckle Bush, Spiraea and Symphoricarpos in variety.

### EVERGREENS

## C. M. HOBBS & SONS, Inc.

BRIDGEPORT, IND.

### ORNAMENTALS

#### TREES SHRUBS

#### EVERGREENS

Wholesale growers of a general assortment for the best landscape plantings.

## BRYANT'S NURSERIES

Princeton, Illinois

### FOR SALE or TRADE

Peach Trees, first-class in every respect.

We can use Peonies, Roses, Azaleas.

SECOR'S PERRY, OHIO

would die the worst death that ever came to an industry, and that is lack of business. "There is nothing in this world that I know of worse for a firm or a salesman than to live on yesterday's order. The order you got yesterday may have been a good one, but you have got to have one for today and you have got to have one for tomorrow."

As in all industries which render service, Mr. Bond said that the landscape nursery concern is going to be faced with requests for more and more service from its customers. First of all, when the salesman or crew drives up in the front of the customer's house, it should be in a neat car or a neat truck. The foreman and his crew should be instructed well before they start on the job, so that they will not waste time and make a bad impression on the customer. He suggested that when a job was started the foreman inform the lady of the house that planting was being started and at the end of the day invite her out to see what had been accomplished. He said the landscape salesman should be cautious in what he promises and support the crew that does his work. After the job has been completed he should go back to see the customer and the planting.

In the discussion which followed, several in the audience asked about the problem of the unsatisfied customer. One solution was that a large measure of the difficulty could be erased by landscape education on a national basis. Much dissatisfaction may be laid to the fact that many people do not know what they are getting for a price or what they should get for a price.

The afternoon session opened with the showing of a movie, "A Year in the Nursery," taken at Mount Arbor Nurseries, Shenandoah, Ia., and narrated by the firm's eastern representative, O. Lindsay Clarkson.

#### Foremen Speak.

The session continued with a forum entitled "The Foreman Talks Back." Foremen participating in the open discussion were Earl Bruerton, Peter Cascio Nursery, West Hartford, Conn.; Harold Thurlow, Cherry Hill Nurseries, West Newbury, Mass.; Linwood Robbins, Bay State Nurseries, Inc., North Abington, Mass.; William Brown, Lexington Nurseries, Inc., Lexington, Mass., and David Holmes, Landscape Service Co., Framingham, Mass.

Mr. Robbins remarked on the customer who kept the planting foreman waiting to start the job or interrupted him from the job to talk about

## EVERGREENS POTS

		Per 100
1200	Taxus Capitata, 6 to 8 ins.	\$25.00
2000	Taxus Cuspidata, 6 to 8 ins.	22.50
1500	Juniperus Hetzii Glaucia, 6 to 8 ins.	25.00
12,000	Juniperus Chin. Pfitzeriana, 6 to 8 ins.	20.00

## FIELD FRAMES

5000	Juniperus Hetzii Glaucia, 6 to 8 ins., 2-yr.	25.00
5000	Juniperus Hetzii Glaucia, 6 to 8 ins., 1-yr.	20.00
2000	Juniperus Hor. Pl. (Andorra), 6 to 8 ins., 2-yr.	15.00
4000	Juniperus Hor. Pl. (Andorra), 6 to 8 ins., 1-yr.	17.50
600	Picea Abiesiana, 6 to 8 ins.	25.00
300	Picea Pungens Glauca, 9 to 12 ins.	40.00
2000	Taxus Capitata, 4 to 6 ins., 1-yr.	18.00
2000	Taxus Cuspidata, 4 to 6 ins., 2-yr.	20.00
2000	Taxus Cuspidata, 4 to 6 ins., 1-yr.	18.00
1200	Taxus Intermedia, 4 to 6 ins., 2-yr.	20.00
1200	Taxus Media Hicksii, 4 to 6 ins., 2-yr.	20.00
1300	Taxus Media Hicksii, 6 to 8 ins., 2-yr.	18.00
2000	Thuja Occ. Globosa, 6 to 8 ins., 2-yr.	20.00
4000	Thuja Occ. Globosa, 4 to 6 ins., 1-yr.	17.50
2000	Thuja Occ. Pyramidalis, 4 to 6 ins., 1-yr.	17.50

TERMS: NET CASH WITH ORDER; PACKING FREE.

Orders will be filled in turn as received while our stocks last, subject to conditions beyond our control.

An order for 25 of the same variety and size sold at the 100 rate.

Minimum order, 100 plants.

## ELMHURST NURSERIES, Inc.

York and Roosevelt Roads  
Ted W. Smith, Pres.

ELMHURST, ILL.  
Emil H. Martens, Mgr.

Please Mention AMERICAN NURSERYMAN When Writing Advertisers.

## ROSES

We have a surplus in Heavy, No. 1, 2-yr. BUSHES, budded on multiflora; \$25.00 per 100 F.O.B. Tyler. Offered subject to prior sale and conditions over which we have no control. TERMS: Cash with order, please.

### CLIMBING ROSES

Paul's Scarlet

Cl. Talisman

### BUSH ROSES

Ami Quinard, Editor McFarland, Golden Charm, Golden Gloria, Pink Radiance, President Herbert Hoover, Red Radiance. SEND want list for other varieties we have in smaller quantities.

### POLYANTHA ROSES

Golden Salmon

Ideal

### PATENTED ROSES

A few surplus in seventeen varieties.

We will be very glad to mail list.

References if desired.

## ROSE HILL FARM

R. F. D. 4, TYLER, TEXAS

## CHOICE SHRUB LINERS

	Per 100	Per 1000
Cotoneaster divaricata, 1-yr., pots.	\$ 7.50	\$70.00
Hydrangea P. G., 12 to 18 ins., layers.	9.50	90.00
Fontanesia fortunei, 12 to 18 ins.	5.50	50.00
Forsythia spectabilis, 12 to 18 ins.	4.00	35.00
Lonicera macrantha, 8 to 12 ins.	4.50	40.00
Rhamnus chadwickii, 8 to 12 ins., 2-yr.	4.50	40.00
Tamarix africana, 18 to 24 ins.	4.50	40.00
Viburnum opulus sterile, layers, 12 to 18 ins.	10.00	90.00
Thornless Honey Locust, 12 to 18 ins., 2-yr.	3.50	30.00

Ask for our complete list of lining-out stock including other scarce items, such as Purple Beech, Viburnum burkwoodi, grafted evergreens, etc.

**BURTON'S HILL TOP NURSERIES**  
CASSTOWN, OHIO

# SMALL FRUITS

The following list of material is ready for immediate or future shipment. All prices F.O.B. Bridgman, boxing at cost. Usual terms. Cash with order earns free boxing.

## GRAPES

	Per 100	Per 1000
Concord, 2-1	\$10.00	\$80.00
Concord, 1-1	8.00	60.00
Niagara, 2-1	11.00	90.00
Niagara, 1-1	9.00	70.00
Catawba, 2-1	11.00	90.00
Catawba, 1-1	9.00	70.00
Fredonia, 2-1	11.00	90.00
Fredonia, 1-1	9.00	70.00
Delaware, 2-1	14.00	120.00
Delaware, 1-1	11.00	90.00
Van Buren, 2-1	35.00	—
Van Buren, 1-1	25.00	—
Sheridan, 1-1	14.00	—

## BLACKBERRIES

Eldorado, transplants	6.50	55.00
No. 1, R.C.	4.50	35.00
Alfred, transplants	6.50	55.00
No. 1, R.C.	4.50	35.00
Early Harvest, No. 1, R.C.	5.00	40.00

## BOYSNBERRIES AND DEWBERRIES

Boysenberry (Common), No. 1, tips	5.00	40.00
Boysenberry (Thornless), No. 1, tips	5.50	45.00
Lucretia Dewberry, No. 1, tips	5.00	40.00

## CURRENTS

Wilder, 3-yr., heavy	15.00	130.00
2-yr., No. 1	12.00	100.00
Red Lake, 2-yr., No. 1	16.00	—
1-yr., No. 1	12.00	—

## GOOSEBERRIES

Downing, 2-yr., No. 1	30.00	—
Houghton, 2-yr., No. 1	25.00	—
Champion, 2-yr., No. 1	25.00	—

## RED RASPBERRIES

Letham, transplants	7.50	65.00
1-yr., No. 1	6.00	50.00
Chief, transplants	7.00	60.00
1-yr., No. 1	5.50	45.00
Surprise, transplants	7.00	60.00
1-yr., No. 1	5.50	45.00
Indian Summer, transplants	8.00	70.00
1-yr., No. 1	6.50	55.00
St. Regis, transplants	7.00	60.00
1-yr., No. 1	5.50	45.00

## BLACK RASPBERRIES

Cumberland, No. 1, tips	4.50	35.00
Logan, No. 1, tips	4.50	35.00
Morrison, No. 1, tips	5.00	40.00

## PURPLE RASPBERRIES

Sodus, No. 1, tips	5.50	45.00
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## ASPARAGUS

Paradise and Washington, 3-yr., heavy	4.00	30.00
2-yr., No. 1	2.30	18.00
1-yr., No. 1	1.70	12.00
1-yr., in 10,000 lots	—	—

## VICTORIA RHUBARB

1 1/2-in. and up, whole roots	8.00	75.00
1 to 1 1/2-in., whole roots	5.50	50.00
3/4 to 1-in., whole roots	4.00	35.00
1/2 to 3/4-in., whole roots	3.00	25.00

## RED RHUBARB

Canada Red, No. 1, divisions	4.00	350.00
McDonald, No. 1, divisions	3.00	250.00

## HORSE-RADISH

Cuttings, 4 to 5 ins.	2.00	15.00
Whole roots	4.50	35.00

## BLUEBERRIES

Rancocas (Early), Rubel (Midseason), Jersey (Late), Each	Per 10	Per 100
2-yr., 9 to 12 ins.	\$0.40	\$3.50
3-yr., 12 to 18 ins.	.55	5.00
4-yr., 18 to 24 ins.	.75	7.00

## KRIEGER'S WHOLESALE NURSERY

BRIDGMAN, MICHIGAN

P. O. Box 143

Telephone 22

some other garden work, consuming much valuable time from the job. The moderator, Mr. Bond, said that he believed that that was part of customer service and such time should be allowed in the estimate for every job as part of overhead.

Mr. Brown said that a big problem was having the trucks loaded ready to go when the crew was ready to start work in the morning. Most of those who commented agreed that orders should be assembled the night before. One person commented on a system used by some department stores in delivering orders, and Mr. Harmon stated that this stall idea had been started at his firm in a small way and that it worked. A large loading area outside the shed is used to congregate larger materials. There are stalls in which each landscape foreman's material is deposited. In the morning he receives a sheet showing just what he is to take to the jobs, and trucks are assigned to each foreman with his own tools on the truck. Another member of the audience said that when a salesman sells an order, his firm tried not to schedule the job within that week unless absolutely necessary. A weekly schedule was made out for each landscape foreman, and that foreman has his schedule on Friday night for the following week. In this way the foreman knows just what he is going to do and the digging crew gets orders early enough in the week to have the materials ready the night before the trucks are to leave.

Another point discussed was the delegation of authority to the foreman responsible for decisions on the job. One foreman stated that he thought he should be able to do it as he saw fit, with his boss correcting him afterward, so that he would know in the future the right way. But he said that, while the job was being done, there should be only one man in charge. He said that the man would be more valuable in the future if he could work out his problems by himself first and then be corrected. But both foreman and employers agreed that employee and employer should be big enough to take suggestions. In this regard, the employer should know his employee and have his employee well instructed so that he will know that the job is going to be done the way it has been sold to the client.

## The Office Staff.

Concluding the program was Mrs. Helen Anderson, vice-president of Lexington Nurseries, Inc., Lexington, Mass., whose subject was "The Power Behind the Throne." She

## NORTHERN-GROWN STOCK

Demand for our stock has sold us out on some items, and we are short on others. Stock is grown, handled and packed to bring repeat orders. Prices are based. Cash with order.

American Arborvitae	Per 100	Per 1000
3-yr. S., 4 to 8 ins.	\$3.50	\$30.00
2-yr. S., 2 to 4 ins.	3.00	25.00

Black Spruce	3-yr. S., 3 to 6 ins.	3.00	25.00
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White Spruce	3-yr. S., 3 to 6 ins.	3.00	25.00
Colorado Blue Spruce	3-yr. S., 3 to 5 ins.	3.50	30.00

Colorado Blue Spruce	3-yr. S., 3 to 5 ins.	3.50	30.00
4-yr. Trans., 4 to 6 ins.	8.00	75.00	

Norway Spruce	2-yr. S., 2 to 4 ins.	3.00	25.00
---------------	-----------------------	------	-------

White Pine	2-yr. S., 2 to 4 ins.	3.00	25.00
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Platte River Red Cedar	2-yr. S., 6 to 8 ins.	3.50	30.00
2-yr. S., 4 to 6 ins.	3.00	25.00	

American Arborvitae and White Spruce, 5,000 lots or over.	\$5.00	per 1000 less.
---	--------	----------------

## EVERGREEN LINERS

Per 1000

Arborvitae, 6 to 10-in. sdlg.	\$60.00
-------------------------------	---------

Fir, Douglas, 4 to 6-in. sdlg.	40.00
--------------------------------	-------

Pine, Mugho, 4 to 6-in. sdlg.	50.00
-------------------------------	-------

Pine, Mugho, 6 to 10-in. sdlg.	75.00
--------------------------------	-------

Spruce, B. H., 6 to 10-in. sdlg.	75.00
----------------------------------	-------

Spruce, Colo., 4 to 6-in. sdlg.	60.00
---------------------------------	-------

Spruce, Norway, 4 to 6-in. sdlg.	50.00
----------------------------------	-------

Juniper, Irish, 4 to 6-in. trans.	\$.25
-----------------------------------	-------

Juniper, Irish, 6 to 10-in. trans.	.30
------------------------------------	-----

Arborvitae, Globe, 2 1/4-in. potted.	.20
--------------------------------------	-----

Write for our new complete list of a general line of nursery stock.

## SHERMAN NURSERY CO.

CHARLES CITY, IOWA

## COMPLETE ASSORTMENT

### OF

Evergreens, Fruit Trees, Shade Trees, Roses and Lining-out Stock.

Write for complete list.

## ONARGA NURSERY CO.

Onarga, Ill.

said that, if each one present were to make an honest survey of his business status, in all probability he would admit that a good measure of his success was due directly or indirectly to the efficiency and cooperation of his staff. For no one man in any organization can, in all honesty, assume all the credit for good breaks nor assume all the blame for bad breaks. Therefore, she said it stood to reason that there was a force behind the scene which made itself felt favorably or adversely in the business; this was the girls and the men whose duties are confined more or less to the office.

Probably the prospective customer's contact with the nursery may be over the telephone, and his reception over that instrument may determine whether he will become a customer or contact another firm where he is greeted more cordially. Often when the prospective customer calls at the nursery in person, the owner or salesman may be busy, so that one of the office staff is called upon to keep the customer occupied so that he will be unaware of the passing time. The mood established by the time the nurseryman returns to take care of the client often influences the decision of the visitor as to whether he would like to do business with this firm.

Apart from greeting and influencing customers, an important function of the office personnel is keeping track of orders, keeping posted on changes in routine, making memos of important matters and disposing of the trivia which accumulate so quickly and take so much time, yet which is not important enough for the nurseryman to spare valuable time to handle.

To help the office force maintain a high peak of cooperation and efficiency, Mrs. Anderson suggested that, first, an expression of appreciation of work well done creates incentive to do even better work. Second, the staff should be informed of plans to keep things running smoothly. "It is hired to help, not hinder you, and in order to help, it should know what you are doing and what you are going to do. To be confronted by a matter of which it is totally ignorant is disconcerting as well as time-wasting."

When changes in routine, schedules or prices are made, more than one member of the staff should know of these so that in the event of his absence a stalemate will not result.

Mrs. Anderson said that, while trying to keep landscape appointments within a specific time limit was

## LINING-OUT STOCK FOR SPRING, 1949

Grafted Evergreens, 2 1/2-in. pots, \$47.50 per 100; \$450.00 per 1000.

Juniperus virginiana canaerti  
Juniperus virginiana canaerti compacta  
Juniperus virginiana glauca  
Juniperus virginiana elegantissima (Lee), \$55.00 per 100  
Juniperus virginiana burki  
Juniperus virginiana keteleeri  
Juniperus virginiana pyramidalis hillii  
Juniperus chinensis columnaris glauca  
Juniperus chinensis columnaris (Green)  
Juniperus chinensis compacta  
Juniperus chinensis mascula  
Juniperus chinensis stricta  
Juniperus pfitzeriana, 2 1/2-in. pots, 8 to 10 ins.,  
\$25.00 per 100.  
Biota aurea nana compacta (Berckmans)  
Biota conspicua  
Picea pungens glauca, Moerheimi grafts, \$100.00 per 100.

Our stock is known for first-grade quality.

**PAUL OFFENBERG NURSERIES, 3415 E. Livingston Ave., COLUMBUS 9, OHIO**

### TIME TO ORDER FOR SPRING PLANTING!

#### Two Scarce Items.

Rhus cotinus	Per 100	Per 1000
3 to 6 ins.....	\$ 6.00	\$55.00
6 to 9 ins.....	9.00	80.00
9 to 12 ins.....	11.00	...
12 to 18 ins.....	17.50	...

Kolkwitzia amabilis	Per 100	Per 1000
3 to 6 ins.....	6.00	55.00
6 to 9 ins.....	9.00	80.00
9 to 12 ins.....	11.00	...

**NEWPORT NURSERY CO.**  
NEWPORT, MICH.

## WANTED

*Cornus paniculata*, seedlings.

*Viburnum dentatum*, seedlings.

Dwarf Ninebark, rooted cuttings.

## WE HAVE

Persian Lilacs, 8 to 10 ins.

*Philadelphus virginalis*, 8 to 10 ins.

*Rhamnus frangula*, 8 to 10 ins.

EUGENE A. de ST. AUBIN & BRO., Inc.  
Addison, Ill.

**LAKE'S**  
**SHENANDOAH NURSERIES**  
Shenandoah, Iowa.

Wholesale growers of  
a fine assortment of

### GENERAL NURSERY STOCK

Your inquiries will be appreciated.



### EVERGREENS

Growers of Quality Evergreens  
Lining-out Stock & Specialty

Write for Trade List

EVERGREEN NURSERY CO.  
Established 1864 : STURGEON BAY, WIS.

## FRUIT TREE SPECIAL

Michigan-grown Extra-fine trees

Send your "Want List" at once.  
Special on Peach . . . Some Dwarf Pear

### "VIRGINIA SEASIDE ROSES"

Our Virginia roses are the best yet.  
If possible, come to Monroe and look  
them over; a long list of the best va-  
rieties to select from, \$50.00 per 100.

### ILGENFRITZ NURSERIES, Inc.

The Monroe Nursery Monroe, Mich.



Wholesale growers of the best  
Ornamental Evergreens,

Deciduous Trees,  
Shrubs and Roses

Write for our current trade list.

**THE KALLAY BROTHERS CO.**

Painesville, Ohio

difficult, if someone in the office were given a rough schedule of appointments in order to give callers an approximate time of the nurseryman's or salesman's return, it would be of invaluable aid. Also, she said that pockets do not make good files; many an order which has not appeared on the schedule at the proper time has turned up in its original form in the salesman's pocket. Salesmen should be instructed to write orders as legibly as possible and to turn them in to the office as soon as they are booked.

#### Transportation Report.

The meeting reconvened Thursday morning with the report by E. D. Robinson, chairman of the membership committee, who read the names of new applicants for membership. A discussion of association business followed. Then Russell Stokes reported for L. F. Palmeter, transportation chairman. He cited the increased freight tonnage carried by American railroads in the first half of 1948 and the accompanying rate increases and said that present trends are toward a further increase in freight rates. Despite the seemingly gloomy picture, he reported that it was questionable as to how adversely increased freight rates would affect the nurseryman in the New England area. The Interstate Commerce Commission's bureau of transportation economics and statistics stated in a recent report that rail freight charges during the past year amounted to less than five and one-half per cent of the wholesale value at destination of all commodities shipped by rail, which was the lowest percentage since 1928, when the surveys were begun.

Where the problem of increased transportation costs bear directly on New England nurserymen is in the shipment of less-than-carload orders to points west. These increased shipping costs might be combated by joint action with an eye toward obtaining commodity rates on carloads of stock which are purchased for planting stock for resale. This avenue has been comparatively unexplored in the east, but Mr. Stokes stated that nurserymen on the Pacific coast had made an auspicious beginning in this direction. Another approach is to attempt to schedule shipments in such a way that several shipments to a given point may be combined to make up a minimum carload and to assign the car to one of the customers and have the others pick up their stock at the salesyard of the one to whom the car is consigned. This system has been utilized by most nurserymen for many years and is



SEMMES, ALABAMA

Azaleas, Camellias, Gardenias  
and a General Line of  
Ornamental Nursery Stock  
Lining-Out Stock Our Specialty  
WHOLESALE ONLY

#### CHARLES SIZEMORE Traffic Manager

319½ Georgia St., Louisiana, Mo.  
Loss and damage claims against  
railroad and express companies  
collected.

Freight bills audited.

Past due notes and accounts  
collected.

Well known to the nurserymen  
of the country.

Reference: Bank of Louisiana.



#### SEMMES NURSERIES

AZALEAS - CAMELLIAS  
and other choice evergreens.

Wholesale Catalog SEMMES, ALA.

probably one of the best methods in use at the present time.

One point that is not generally understood, however, is the fact that merely pooling orders in a car destined for a given point is not enough, since these are billed on a straight less-than-carload basis and result in no saving to the customer. A third method that might be utilized is to consign a carload of nursery stock containing orders for ten or twenty individual orders to a distributor or freight forwarder, who will pay for the car and then apportion the cost to the various individuals plus a nominal fee for his handling in delivery. Individuals bills of lading would have to be furnished the distributor, and one of the initial obstacles to this method is that many of these distributors will handle only this type of business on a prepaid basis. Few firms could afford to prepay any substantial portion of their shipments, even though these charges could be added to the

#### MALONEY'S OFFER

A FINE ASSORTMENT OF  
HARDY UPLAND - GROWN

#### FRUIT TREES

1 and 2-year.

STANDARD and DWARF PEAR

STANDARD APPLE

SWEET and SOUR CHERRY  
PLUM, APRICOT, QUINCE

PEACH, 1-YEAR

SHRUBS—EVERGREENS  
ORNAMENTALS

Let Us Quote You Attractive  
Wholesale Prices on Your Spring  
Requirements.

Write for Complete Trade List.

MALONEY BROS. NURSERY CO., Inc.  
DANVILLE, N. Y.

#### "PROPAGATION OF HORTICULTURAL PLANTS"

By G. W. Adriance and F. R. Brison.

A textbook on methods, including  
bulbs, layerage, cutting, budding  
and grafting. Accepted methods  
for commercial propagation of  
specific plants are given in detail.  
314 pages. (1939)

Price 3.25, postpaid

AMERICAN NURSERYMAN  
343 South Dearborn St. Chicago 4, Ill.

#### EVERGREENS

Seedlings and Transplants

See our advertisement in the Feb. 15 issue.

E. C. MATTHEWS  
Harbor Springs, Mich.

invoices and collected at a later date.

Relative to carload and less-than-carload shipments into the states of Michigan, Indiana and Illinois, it should be noticed that utilization of the so-called differential route can be advantageous to the customer.

On shipments within the New England area, metropolitan New York, Long Island and New Jersey, motor freight seems to be more efficient and cheaper. It is important, however, first to ascertain the rates which will apply to nursery stock in the tariff of any given motor carrier, since these rates are not uniform for all.

#### Concluding Business.

Jack Shore, chairman of the trade exhibits committee, reported that

there were thirteen exhibits at the meeting, six more than last year, which gave a net income of \$325 to the association.

Homer Dodge reported on activities of the National Landscape Nurserymen's Association, in particular on the work of the education committee to investigate and formulate an educational program for the various colleges' guidance in turning out graduates for use in the landscape nurseries. He stated that progress was slow but that colleges were cooperating. Cornell University is endeavoring to arrange its courses according to the N. L. N. A. curriculum; Syracuse University has a park executives' course which is close to meeting the N. L. N. A. requirements, and Pennsylvania State College will have a course on these recommendations if the proper faculty can be secured.

When the business session was ended, Frank LaBar, LaBars' Rhododendron Nursery, Stroudsburg, Pa., gave an informative and entertaining talk on social security, labor relations and the value of exchanging ideas as in the educational open forum program the day before.

A discussion on wage rates followed, and one member pointed out that a very effective help, besides legislation, would be to obtain some yardsticks by which to measure one's own business. Last year he said that he was curious to know how his pay roll expenditure percentage was with gross sales compared to those of other firms. So he wrote two in Ohio, one in New York, one at Chicago and one west of the Mississippi river to ask if they would be willing to give the percentage of their pay roll expense in relationship to the total gross volume during any given period. These firms did it willingly, and several of them went out of their way to state what their gross sales were and what the relationship was. He tabulated the information and sent it to each of these who had replied. The pay roll figures ran from thirty-five to forty-one per cent.

This brought out the point that nurserymen should be willing to answer specifically and completely the questionnaires sent them by their association. Mr. LaBar said that when the rate on accident insurance was so high, the Pennsylvania Nurserymen's Association appointed a committee to work with the state on it. At the state capitol the committee was informed that the nursery industry had not been tabulated and that the volume was so minor it had not been computed; therefore



## ROSES

### For Forcing or Rose Gardens TWO-YEAR, FIELD-GROWN

(Budded on *Japonica Multiflora*)

These Roses are GROWN RIGHT—GRADED RIGHT—SHIPPED RIGHT.  
ORDER TODAY FROM THIS AD.

#### PRICES

500 Lots and over: No. 1, 38c; No. 1½, 30c; No. 2, 20c.  
100 to 500 lots: No. 1, 40c; No. 1½, 32c; No. 2, 25c.  
Orders for less than 100 Roses: No. 1, 45c; No. 1½, 35c; No. 2, 25c.

ORDER GROUPS OF 10. WE DO NOT BREAK BUNDLES. We will wrap these Roses in individual packages and label for an additional 5c each.

TERMS: CASH WITH ORDER AND NO CHARGE FOR PACKING. WE WILL, HOWEVER, ACCEPT 25% WHEN ORDER IS PLACED—BALANCE C.O.D. PACKING CHARGES ON ALL C.O.D. ORDERS.

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Red Radiance  
Etoile de Hollande  
Poinsettia  
Aml Quinard  
Rouge Mallerin  
Grenoble

#### PINKS

Pink Radiance  
Editor McFarland  
Columbia  
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Golden Dawn  
Luxembourg  
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CLIMBING ROSES  
Paul's Scarlet  
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#### VARIEGATED or MULTICOLORS

Edith Nellie Perkins  
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POLYANTHAS  
Ellen Poulsen, bright  
cherry-red  
Kirsten Poulsen,  
bright scarlet  
Golden Salmon  
Ideal

ORDER TODAY FROM THIS AD.

Delivery made now or in Spring

## OZARKS PLANT FARMS, INC.

583A Seminole Drive

SPRINGFIELD, MO.

Please Mention AMERICAN NURSERYMAN When Writing Advertisers.

## 400 COLORADO BLUE SPRUCE

(*Glauca*)

In lots of 10 or more.	Each
3 to 3½ ft.	\$4.55
3½ to 4 ft.	5.20
4 to 4½ ft.	5.85
4½ to 5 ft.	6.50

Three and four times transplanted.

Northern-grown.

### ANTIGO EVER-GREEN NURSERY

John Hanus & Sons  
302 Deaglise St. ANTIGO, WIS.

## HEMLOCKS

Specimen stock transplanted 4 and 5 times. Sheared. In large truckload lots. Select them yourselves. 3½-ft. to 5½-ft. sizes. We grow the finest. Write for full particulars.

Also, a few Ball Carriers in stock.

### SUNNYVIEW NURSERIES

George Colmorgen, Prop.  
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## SHADE TREES

Chinese Elm, American Elm, Sugar Maple, Sycamore, Redbud and White-flowering Dogwood. Sizes, 2 to 10 feet.

### EVERGREENS

Red Cedars. (Beautiful trees, collected.)

5 to 10 inches.	\$20.00 per 1000
10 to 15 inches.	35.00 per 1000
15 to 24 inches.	7.50 per 100
2 to 3 feet.	12.50 per 100
3 to 4 feet.	17.50 per 100

In business 28 years.

### ROLLERS NURSERY

Phone: 661 ROGERS, ARK.

## HEAVY 2-YR. SHRUBS

### FRUIT TREES

### SPECIMEN EVERGREENS

### LINING-OUT STOCK

### SNEED NURSERY COMPANY

P. O. Box 798  
Oklahoma City 1, Okla.

### WANTED FOR SPRING PLANTING

2 Acer spicatum, Mountain Maple,	4 to 5 ft., B&B.
11 Cornus officinalis, Japanese Cornel Dogwood,	4 to 5 ft., B&B.
500 Forsythia ovata, Early Forsythia,	2 to 3 ft.
10 Quercus macrocarpa, Bur Oak,	6 to 8 ft., B&B.
3 Rubus deliciosus, Boulder Raspberry,	2 to 3 ft., B&B.
250 Viburnum pubescens,	Downy Viburnum, 2 to 3 ft.
3 Viburnum veitchii, Veitch Viburnum,	3 to 4 ft., B&B.

### UNIVERSITY HOUSES, Inc.

P. O. BOX 2059  
MADISON, WIS.

## SOUTH DAKOTA-GROWN

First-class—Strong Grade.

Prunus Americana seedlings.	
1/4-in. up	Per 1000 \$27.50
No. 1	22.50
No. 2	18.50
No. 3	12.50

Chinese Elm seedlings, 2-yr.

3 to 4 ft.	36.00
4 to 5 ft.	56.00

A post card will bring our latest Surplus List.

### GURNEY SEED & NURSERY CO.

TYNDALL, S. D.

## VUYK VAN NES BOSKOOP HOLLAND

Originators of Azaleas Vuykiana (Hardy Dutch Hybrid Azaleas), large-flowering, bloom with foliage; in one white variety and several in nonfading colors.

Propagators and growers of choice nursery stock. All types of Azaleas, Rhododendrons and other broad-leaved Evergreens, Conifers, Roses, Shrubs and Perennials.

Exports to the U. S. A. receive special preparation, cleaning and packing for best results. All stock carefully graded. New York office handles all import details at no extra cost.

Please direct all your correspondence to:  
140 Cedar Street New York 6, N. Y.

### VUYK VAN NES NURSERIES

#### "BRODLEAF" HOLLAND PEAT MOSS

Fully Matured—Packed Dry—Saves Freight  
A BUSHEL WHEN MOISTENED WEIGHS

30 POUNDS

	Prompt Shipment	Each
100 LARGE	4-bu. BAGS (2 color) ..	\$1.30
50 LARGE	4-bu. BAGS (2 color) ..	1.40
20 LARGE	4-bu. BAGS (2 color) ..	1.45
10 LARGE	4-bu. BAGS (2 color) ..	1.50
100 MEDIUM	2-bu. BAGS (2 color) ..	.70
30 MEDIUM	2-bu. BAGS (2 color) ..	.80

BAGS ARE JUST RIGHT  
FOR GARDEN MARKETS

10 LARGE STANDARD BALES \$4.00 each  
ALSO FOR SHIPMENT DIRECT  
FROM HOLLAND

STANDARD bales — EXTRA bales — JUMBO bales.

HALF MOON MFG. & TRADING CO., Inc.  
90 West Street NEW YORK 6, N. Y.

#### SUGAR MAPLES

	Cash with Order	Per 100
5 to 6 ft.....		\$ 50.00
6 to 8 ft.....		75.00
1 to 1 1/4-in.....		150.00
1 1/4 to 1 1/2-in.....		200.00

RED or SCARLET MAPLE  
Same sizes and prices as  
Sugar Maple.

TULIP TREE  
Same sizes and prices as  
Sugar Maple.

WALNUT and BUTTERNUT  
1 to 1 1/4-in..... \$15.00 per 100

H. HAGQUIST & SON NURSERY CO.  
SOUTH BEND, INDIANA

#### DAHLIA ROOTS

We grow many acres of standard cut flower varieties for wholesale trade. Most are the kinds that stand hot, dry weather best.

Write today for wholesale price list N.

PAYNE DAHLIA FARMS  
Route 5 Kansas City 3, Kansas

AMERICA'S BEST SOURCE  
FOR HARDY PLANTS IS

THE WAYSIDE GARDENS  
MENTOR, OHIO  
Write for Trade List.

#### WELLER'S PERENNIALS

With That Wonderful Root System  
Headquarters for

HARDY MUMS AND PHLOX.

Ask for our Perennial Catalog.

WELLER NURSERIES CO., Inc.

Leading Perennial Growers

HOLLAND, MICH.

there were no figures to work on. The committee prepared a questionnaire and sent it to every member of the association. On first call, it got about a thirty per cent return and finally about sixty per cent. As a result of the questionnaire, the rate was reduced from \$4.85 to \$1.05.

The meeting was adjourned at noon, and in the afternoon Technicolor sound movies were shown of San Francisco, where the A. A. N. convention is to be held in July.

#### OHIO NURSERY

#### SHORT COURSE.

[Continued from page 12.]

too low to make a good street tree. A healthy lawn can be maintained under P. amurensis.

Gleditsia triacanthos inermis is one of those trees with a botanical contradiction. The name means the unarmed, 3-spined honey locust. The clone, colonial locust, is a sterile tree which will not clutter up the lawn or street with seed pods. It is a vase-shaped tree and somewhat resembles the American elm in its habit of growth. The colonial locust is a fast-growing tree which seems to withstand the wind. The foliage usually stays on the tree about three weeks longer than on the species, and it remains green much longer.

Nyssa sylvatica, the sour gum, is an excellent tree for its fall color. It grows best in an acid soil and when well fertilized. One drawback is that it is usually difficult to transplant. The older trees have an interesting branching habit. N. sylvatica loses its leaves earlier than most trees, but this is compensated for by its excellent fall color.

Dr. Chadwick concluded his lecture with Sassafras variifolium, the common sassafras. The slide showed a tree in its fall coloring of brilliant orange. Dr. Chadwick believes that the sassafras would make an excellent tree for golf course planting because of its varied and interesting habit of growth and its brilliant fall color which would add much to the appearance of most golf courses.

#### Rose Varieties.

A panel discussion, led by Walter Burwell, Burwell Nurseries Co., Columbus, on "Roses—Choice of Varieties," opened the program Wednesday morning. Taking part in the discussion were Paul Bosley and Melvin Wyant, Mentor, and John Siebenthaler, Dayton. Each of these men had submitted a list of the rose varieties he considered best for use by the amateur grower and a list for the experienced grower. A list was

#### WE CAN STILL SUPPLY

#### Hydrangea P.G. Per Per

100 1000

6 to 12-in. C..... \$ 65.00

12 to 18-in. br. C..... 12.50 100.00

#### Spiraea Vanhouttei

12 to 18 ins..... 10.00 75.00

18 to 24 ins., br..... 12.50 100.00

2 to 3 ft., 2-yr.,

well br..... 20.00 175.00

#### White-flowering

#### Dogwood

6 to 12-in. sdgs..... 3.00 25.00

12 to 18-in. sdgs..... 5.00 40.00

18 to 24-in. sdgs..... 7.00 60.00

#### Butterfly Bush

18 to 24-in. C..... 10.00 75.00

2 to 3-ft. C..... 15.00 100.00

Terms and conditions same as in our

1948-49 trade list.

The ARNOLD C. CLARK NURSERY  
Rt. 2 McMinnville, Tenn.

#### WHO WANTS THESE?

200 Weeping Willow, 2 to 3 ft.

200 Weigela Variegata, 18 to 24 ins.

100 Red Maple, 2 to 3 ft.

300 Lonicera Sempervirens,

12 to 18 ins.

200 Hemlock, 4 to 8 ins.

100 Holly, 4 to 8 ins.

100 Kalma, 4 to 8 ins.

100 Rhododendrons, 4 to 8 ins.

100 Black Walnut, 6 to 12 ins.

1400 good, nice plants, all for \$25.00.

O. H. PERRY NURSERY CO.

Box 545 McMinnville, Tenn.

#### HARDY NATIVE AZALEAS

Varieties: Calendulaea, Flame Azalea; Canescens, White Azalea; Roseum, Red Azalea.

All with bloom buds.

Per 10 Per 100

12 to 18 ins., br..... \$1.50 \$12.00

18 to 24 ins., br..... 2.50 20.00

2 to 3 ft., br..... 4.00 35.00

See our ad in classified section for attractive prices on lining-out stock.

McMINNVILLE TREE CO.  
Box 125 McMinnville, Tenn.

#### BOXWOOD

True sempervirens, very compact, nice shape, blackish-green in color.

Height Spread per 10

20 to 24 ins..... 20 ins..... \$ 5.50

24 to 30 ins..... 24 ins..... 7.50

30 to 36 ins..... 28 ins..... 9.50

36 to 40 ins..... 32 ins..... 11.50

Large quantities of the above and other varieties priced on request.

#### HEMLOCK

Height Spread per 10

36 to 45 ins..... 30 ins..... \$4.00

B&B—Prices F.O.B. Cookeville.

SHANKS NURSERY  
COOKEVILLE, TENN.

#### 30,000 Potted Taxus Liners

1, 2 and 3-year.

Weigela Eva Rathke, transplants.

Viburnum Rhytidophyllum.

HUMPHREYS LANDSCAPE SERVICE

MT. STERLING, KY.

also submitted by Gerard Klyn, Mentor, who was unable to attend the meeting.

Those varieties which appeared on all the lists were few in number, being only Peace and Crimson Glory. Appearing on three lists were Mrs. Paul Bosley, H. McFarland and Charlotte Armstrong. It was brought out later in the discussion that the chief reasons for the disagreement in the choice of varieties were probably differences in soil and climatic conditions, as well as differences in personal tastes.

Some of the characteristics desired in a good rose variety include: (1) Good performance in all gardens, (2) disease resistance and (3) lasting popularity.

There was common agreement that floribundas should be grown much more than they are at present. They are disease-resistant, are easy to grow and make a good massing effect for landscape use.

Mr. Bosley believes that while it would require at least 100 varieties to make a well rounded nursery list, the average nurseryman should not attempt to grow more than twenty-four well selected varieties. If his customer desires additional ones he should order them for him.

The chief reason for the loss of many of the roses planted each year is that they are planted too deep. According to Mr. Wyant, the graft union should be planted at or near the surface of the soil.

When asked about the best season for planting roses, Mr. Siebenthaler replied that spring planting was best, as it required less replacements and the growth was usually just as good as on roses planted in the fall. He added that it crowds the fall digging to get plants ready for fall planting.

#### Rose Garden Maintenance.

Prof. Victor H. Ries, department of horticulture, Ohio State University, was next on the program with a talk on rose garden maintenance. He first read the directions for planting roses found in some of the nursery catalogs. He then advised the nurserymen to simplify their planting directions because they were usually too complicated for most people to follow.

Professor Ries agreed with the previous speakers that most roses were being planted too deep. There is less oxygen available for the roots when planted deep because soil aeration decreases with depth. Roses also require good drainage, and tile should be used, if necessary. "But do not dig a deep hole in heavy soil and put gravel or cinders in the bottom,

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**Quince, Plum and Prune**, in-  
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as this just creates a cistern to hold  
 the water around the roots and will  
 not allow it to drain off," Professor  
 Ries warned.

He stressed the use of an unde-  
 composed organic mulch to aid in  
 increasing soil aggregation and aera-  
 tion. When using a mulch of this  
 type, it is best to apply a top-dressing  
 of nitrogenous fertilizer.

The customer must be impressed  
 with the necessity of using correct  
 watering methods to grow good roses.  
 It is better to give the soil a periodic  
 soaking rather than a daily light  
 sprinkle. Black spot of roses is diffi-  
 cult to control once it gets started.  
 Customers must be convinced that it  
 is vital to spray or dust their roses at  
 weekly intervals, concluded the pro-  
 fessor.

### "The Best in Hollies."

Paul Bosley, Mentor, who has been  
 testing hollies for some time, trying  
 to select a few good varieties for the  
 Ohio region, spoke on "The Best in  
 Hollies." There are many types of  
 holly available, but few are hardy in  
 this area, he said. The holly has been  
 a neglected plant in this region for  
 many years when it is actually one of  
 the few broad-leaved evergreens  
 which, by proper selection, can be  
 successfully grown here. It is the  
 best known plant in America because  
 of its use during the Christmas sea-  
 son. The public is already sold on it;  
 all the nurseryman has to do is make  
 it available for the public to buy,  
 said Mr. Bosley.

*Ilex opaca*, the American holly, is  
 the best species for the Ohio region.  
 The English holly, *Ilex aquifolium*,  
 is probably more attractive but is not  
 hardy in Ohio. The American holly  
 does equally well in dry or wet soil,  
 sun or shade, as it is adaptable. Be-  
 ing a broad-leaved evergreen, it has  
 one point in common with others of  
 that type in that it transpires even  
 in the winter when frozen. There-  
 fore, it should not be planted in  
 wind-swept areas.

Use only asexually propagated  
 plants taken from selected varieties,  
 Mr. Bosley recommended, because  
 seedling plants are unpredictable as  
 to habit of growth, hardiness and  
 adaptability. Earle Dilatush, Rob-  
 binsville, N. J.; the Hillenmeyer  
 Nurseries, Lexington, Ky.; Mr. Zim-  
 merman, Yonkers, N. Y., and a num-  
 ber of others are doing extensive work  
 in selecting and breeding new varieties  
 of holly.

Holly is a dioecious plant, and, in  
 order to secure berries, plants of both  
 sexes must be present. As yet there  
 are no good holly plants with a per-  
 fect flower. The selection of good

pistillate plants is far ahead of the selection of good staminate ones.

Some of the better varieties of *Ilex opaca* include Old Heavy Berry (a large tree when mature), Bountiful, Merry Christmas and Mrs. Santa. These are all pistillate selections. Arden is an excellent narrow fastigate variety. Bittersweet is an unusual variety in that the berries first turn a bright orange in October and then turn the usual red later in the winter.

Hollies require plenty of organic matter for the best growth. An acid soil is preferable, but some varieties do just as well on neutral or slightly alkaline soil. Chicken manure makes an excellent fertilizer and should be applied in January or February, but it should not be used on small plants. Hollies may be transplanted either in the fall or in the spring, but there is less danger of defoliation with spring planting. With fall planting, about fifty per cent of the plants will defoliate the first year. Leaf miner is one of the worst pests of holly, but it can be controlled fairly successfully with DDT dust during the flying stage.

#### Business Trends.

Mervin G. Smith, department of rural economics, Ohio State University, speaking on "Business Trends," said that the outlook for any business should be considered whenever decisions are to be made. And since all businesses are so closely tied together, consideration of any one business requires a consideration of the general economic situation.

Professor Smith said that at present it looks as though business generally will continue at a high level, but there are many factors which could cause either upward or downward trends. Factors to consider when attempting to obtain an over-all picture of general business conditions are many and varied. The general price level should be taken into account. At present it is declining slightly following an all-time high in August. The international situation is probably the greatest factor at the present time. We seem to have shifted from a war economy to a "cold war" economy rather than to a peace economy as was the case following previous wars, said the professor.

Government and private investments are at a record peacetime high, and the peak of government spending will not occur until late spring. Industrial production is at an all-time high, which means that employment is also high. Industry is beginning to feel the need of reduced production to meet normal demands. If this ad-

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	DORMANT BUD PEACH TREES	Per 10	Per 100	Per 1000
7/8 to 1-in., 5 to 7 ft.	\$4.00	\$37.50	\$325.00	
11/16 to 7/8-in., 5 to 6 ft.	3.50	30.00	275.00	
9/16 to 11/16-in., 4 to 5 ft.	3.00	25.00	212.50	
7/16 to 9/16-in., 3 to 4 ft.	2.50	17.50	150.00	
5/16 to 7/16-in., 2 to 3 ft.	1.50	12.50	110.00	

#### Varieties:

Mayflower	Belle of Georgia	Red Indian	Giant Hale
Early Rose	Early Elberta	Frank	Hiley
Fair Beauty	Elberta	Golden Jubilee	Halehaven

#### JUNE BUD PEACH TREES—In Same Varieties

	JUNE BUD PEACH TREES	Per 10	Per 100	Per 1000
3 to 4 ft.	\$2.50	\$17.50	\$150.00	
2 to 3 ft.	1.50	12.50	110.00	
18 to 24 ins.	1.25	11.00	90.00	

#### PLUM TREES

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	Each	Per 10	Per 100
4 to 5 ft.	\$0.40	\$3.50	\$30.00
3 to 4 ft.	.35	3.00	25.00
2 to 3 ft.	.30	2.50	20.00
Abundance	Gold	Red June	
Bruce	Methley	Wilson	

	APPLE TREES—Mostly One-year Whips	Each	Per 10	Per 100
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Lodi	Stayman Winesap	Yellow Delicious
Jonathan	Twenty Ounce	King David

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justment can be made gradually enough, without disrupting the whole economy, business activity should remain up. Wages have reached a peak, with further demands depending upon the trend of business. It is doubtful if wages will be reduced to any great extent even if a slump occurs, said Professor Smith.

With regard to agricultural economy, he said that the total gross sales of agricultural products during the past year were greater than at any other time in history. Expenses were also higher. The purchasing power of the American farmer was less both in 1948 and 1947 than it was in 1946, and it will probably continue to decrease slightly in 1949. Gross receipts for 1949 will most likely be less, but expenses may be higher than in 1948. However, the net farm income in 1949 will probably be more than it was in any year prior to 1942.

The American farmer is producing one-third more food than before the war for a population which has increased twelve per cent. Also, with the high income, the average American is consuming twelve per cent more food now than before the war. The rest is being exported to Europe. The European recovery plan will continue at least until 1952, which means little reduction in exports, especially in grain products.

Professor Smith went on to list the specific factors of importance to the nursery business. The first group dealt with factors influencing costs. He said that the wage rates for farm labor are three times the prewar level. There will probably be no decrease as long as industry continues at the present level. In fact, wages may go up slightly. The cost of building materials is 133 per cent higher than before the war. Probably little or no reduction will be seen in 1949. Machinery costs are up about sixty-five per cent above prewar level, with no indication of a decline. Fertilizers have increased only about fifty per cent in price. The supply is slightly larger than last year, but the demand is still high. The cost of other equipment and supplies is about seventy-five per cent above the prewar level, said Professor Smith.

Farm real-estate prices are 139 per cent higher than before the war. They increased slowly last year and will probably level off. There will probably be little change unless farm incomes drop a great deal. Taxes, insurance, interest and credit will probably be slightly higher than last year. There has been little change in the cost of insecticides.

According to Professor Smith,

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there is little information regarding the factors which influence demand for nursery products, but some indication can be obtained by observing some of the following points:

1. Incomes. People buy more nursery and greenhouse products when their incomes go up. From a nurseryman's standpoint, a high level of national income is desirable.

2. Building. There will be a reduction in the number of homes built this year, but this will be compensated for by increases in construction of schools, hospitals and public buildings. The demand for ornamentals is usually high when the building rate is high. The general outlook here is good.

er's dollar. The demand for nursery

3. Competition for the consumer stock will vary with the total amount of goods on the market. There is more goods available now than ever before in our history. This means that the need for good salesmanship and service will increase in order to obtain the consumer's dollar.

E. E. J.

[To be continued.]

#### NEW JERSEY MEETING.

[Continued from page 8.]

Dean Martin to take immediate steps to begin a program to add wings to the Horticultural building on the campus of the agricultural college. This would provide room for necessary research that is now being carried on under crowded conditions. Laboratory and office space and a suitable lecture hall are needed.

At this point in the program William Watson, of the New Jersey farm bureau, personally thanked the New Jersey association, as well as the New Jersey Certified Tree Experts, for the fine work done on the farm bureau's property. The association set up a special committee two years ago to landscape the property. It is in the heart of Trenton and will stand out as a perfect example of how a landscaping job can improve property in a crowded city. The work on this property was donated by the association as a token of the friendship and cooperation that has always existed between the nurserymen of New Jersey and the farm bureau.

The better planting committee of the New Jersey association reported that it had conferred with the executive committee and obtained endorsement of a plan to increase the size of the committee by adding association members who were landscape men and who were best qualified to organize and carry out a better planting program. The committee also plans



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*Hexe* Maxwell

*Minodegiri* Mrs. Fisher

*Ledifolia alba* Salmon Beauty

*Sherwood*

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*Ward's Ruby*, R. C. only, \$8.00 per 100.

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*Cham. laws. ellwoodi*, R. C. only, average 4 to 6 ins. \$ 8.00 \$ 70.00

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to take steps to reach home builders and homeowners who may be ready for better planting and to encourage better planting in every way possible. It will work out its own financing. Committee members are Edward Phillips, Paul Hoverman, William Hallicy, Ronald deWilde, Kurt Meyer, Walter Ritchie, George McIntosh, Carl Bosenberg, Raymond Korbobo and George Jennings.

## NEW MAGNOLIA PATENTED.

Plant patent No. 280, covering a new and distinct variety of magnolia, was issued January 11 to Carl E. Kern, Jr., Wyoming Nurseries, Cincinnati, O. Mr. Kern has named the new plant Magnolia George Henry Kern, in memory of his son, Lieut. George Henry Kern, of the United States Naval Reserve, who was killed on active duty on VJ day, 1945.

A result of a cross between Magnolia stellata and an unnamed seedling, the plant has been reproduced by grafting through several generations since 1935, and its characteristics appear to be permanently fixed.

It resembles Magnolia stellata in wood and growth habit, but is distinctly different in bloom. It is intermediate in form between M. stellata and M. soulangeana, with broader flower petals than the former. The plant has a large double flower with a deep rose-pink on the outer surface of the petals and a warm white suffused with a delicate shade of pink at the tips on the inner surface. In contrast to this coloring, the tightly furled buds are a deep reddish-purple with three small green sepals at the base.

Because this shrub has a long blooming season, there are simultaneously present the three stages of bloom coloring—the brownish-lavender buds enclosed in the stipular spathe, the reddish-purple bud petals when the spathe has fallen and the open flowers with the white open face and the showy cluster of stamens and the rose-pink undercoloring.

The plant is especially characterized by its unusual abundance of blooms, its compact upright growth, general hardiness and late blooming season.

Mr. Kern will not have any quantities of the new magnolia available to the trade until the spring of 1950.

W. W. DAMBACH, New Brighton, Pa., was elected a director of the Pennsylvania Christmas Tree Growers' Association at the annual meeting at the state farm show, Harrisburg.

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**CAN TRACE McMINNVILLE  
NURSERIES TO A COW.**

The large nursery business in Tennessee is the result of the death of a cow belonging to J. H. H. Boyd in the Sequatchie valley in the early 1880's, according to an article in the New York Times for February 6. Mr. Boyd's cow nibbled on a fragrant, maroon-colored shrub one day and became so ill that even the local "cow doctors" could not save him. Feeling that he had not received a fair deal from nature, Mr. Boyd sent samples of the shrub to the United States Department of Agriculture, asking what properties in the plant had killed his cow.

He was told that the botanical name of the plant was calycanthus and that its seed pod contained a substance poisonous to some animals but also much in demand for medicinal purposes. Determined that the plant should pay him for the loss of his cow, Mr. Boyd started harvesting seed pods from the plants and selling them to various laboratories. This led to an interest in other plants and a study of methods of growing and propagation.

In 1887 Mr. Boyd opened a nursery business, offering native plants, shrubs and seedlings to the public. He named the concern the Forest Nursery Co., and it is now headed by his son, J. R. Boyd, but as a wholesale business. Another son, F. C. Boyd, has a wholesale and retail nursery, the Boyd Nursery Co., McMinnville.

Today large acreages and many concerns are engaged in the nursery business in Tennessee. It is estimated that the monetary value of the business is more than \$1,000,000. In Warren county alone 500 persons are employed in utilizing about 1,500 acres of land for the growing and development of fruit trees, flowers, ornamental shrubs and other plants which are sold throughout the nation.

**PENNSYLVANIA SHORTAGE  
OF FOREST SEEDLINGS.**

Pennsylvania state nurseries will have only about 10,000 forest seedlings for planting this spring, Milo F. Draemel, secretary of forests and waters, stated in a recent article on reforestation in a new state publication devoted to conservation of Pennsylvania's natural resources.

The quantity available for replanting "is inadequate to reforest areas destroyed by forest fires alone, to say nothing of losses through blight, tree diseases or cutting," he said. Be-

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Our rosebushes give satisfaction and our service will please you.

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HEMET, CALIFORNIA

**GRAPEVINES**

Order Now While List is Complete

**EUROPEAN TYPE**, table varieties.

Thompson Seedless, early, white.  
Monukka Seedless, early, black.  
Malaga Red, early, large.  
Malaga White, midseason, large.  
Ribier, large, midseason, blue.  
Muscat, large, midseason, white.  
Lady Finger, long, midseason, white.  
Black Hamburg, midseason, large.  
Tokay, large, late, red.  
Emperor, late, red.  
Black Malvoisie, table or wine.

**WINE VARIETIES**

Alcantre, red.	Carignane, black.
Golden Chasselas	Grenache, black.
Mission, black.	Zinfandel, black.

**AMERICAN VARIETIES**

Concord, black.	Niagara, white.
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Portland, white.	Fredonia, black.

Also several other varieties.

1 yr., No. 2	2 yr., No. 1
10 for \$ 1.25	10 for \$ 1.75
100 for 9.00	100 for 13.50
1000 for 80.00	1000 for 120.00

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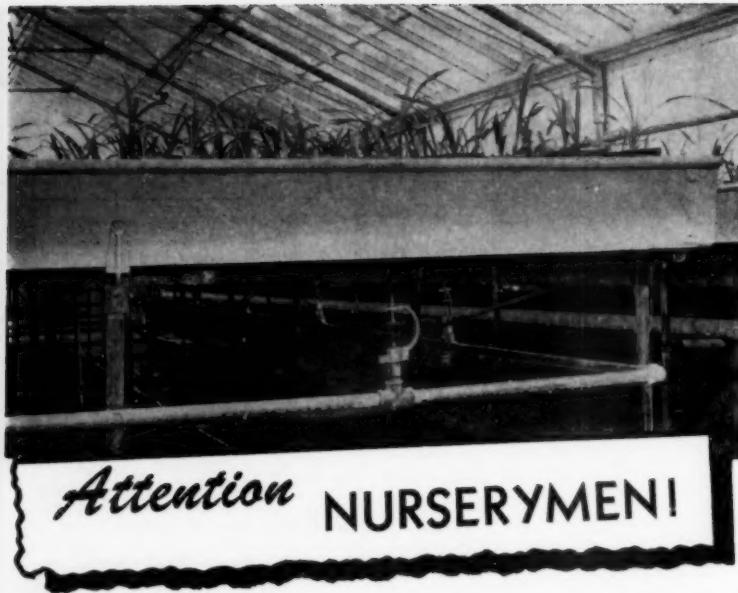
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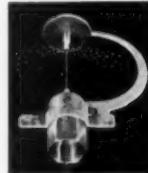
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- Will humidify your greenhouse within 2%, day and night.
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Let us figure your requirements.

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Clean healthy stock, can ship everywhere, all container-grown. 1, 4 and 5-gallon cans, 4-gallon, 12-inch redwood tubs, and 14-inch redwood tubs. Send for list of over 150 varieties.

Special price on carlots, over 40,000 plants.

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In the heart of the world's largest fruit-growing district.

Vigorous, healthy and true-to-name.

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Over 350 Varieties.  
Specimen plants, all sizes, lots of bloom buds.

#### RHODODENDRONS

Fancy and grafted varieties.

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Finest of stock.

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Evergreen lining-out stock.  
Write for price list.

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#### OREGON - GROWN ROSES

No. 1, \$40.00; No. 1½, \$30.00;  
No. 2, \$25.00 per 100.

I will put in 10 extra with each 100, our choice, to help pay for transportation. 200 varieties from which to select.

SUHR'S FLOWER FARMS  
TROUTDALE, OREGON

#### "Habit-forming"

#### NORTHWEST TRADE JOURNAL

In monthly contact with this concentrated nursery market.

Subscriptions, \$1.00 per year.

OREGON NURSERYMAN & FLORIST  
CORVALLIS, ORE.

cause of various difficulties caused by the war, no more seedlings were started.

Despite the shortage, the capacity of state nurseries has been increased for the future, and a state-wide seed-collecting campaign carried on last fall will permit present state nurseries to operate somewhere near capacity. In addition, the construction of two nurseries is planned for this spring.

#### NEW LIGHTWEIGHT POTS.

A new line of lightweight, asphalt-impregnated felt pots for retail nurseries, growers and greenhouses has been introduced by Cloverset Flower Farm, Kansas City, Mo. The pots, to be known as Special Light pots, are a companion line to Cloverset's Standard heavy pots. Because of lightweight material which has just become available, the new pots will be made in the three small sizes, Nos. 0, 1 and 2, which are suitable for greenhouse use, perennials, shrubs, vines and roses.

Although the light pots will do the same starting and growing job as the heavy ones, they are recommended for a single growing season, not to exceed eight months' use, said Kenneth Haysler, Cloverset Flower Farm.

#### NEW HOLLY.

A new evergreen plant, a clone of *Ilex crenata* (the Japanese holly), has been introduced by Styer's Nurseries, Concordville, Pa., as Green Island holly. Selected from seedlings in the nursery where the plant took fine shape without attention, while other forms required shearing, Green Island holly was issued plant patent No. 817 December 28, 1948.

Characterized by moderately low, horizontal growth, the new variety does not have the awkward breaks of upright leaders common to the species. At Philadelphia the horizontal growth has been from four to eight inches a year, and the original plant is now eight feet wide and three feet high. The plant may be used as a dwarf subject in foundation, foreground, hedge and specimen planting. Dwarf forms of *Ilex crenata* now in commerce are mostly rock garden subjects because of their extreme slowness of growth. In contrast, the Green Island holly is more rapid in growth than most of the yews in their early stages.

THE business office of the Prudential Nursery has been moved from Kalamazoo to Vicksburg, Mich.

## NEW PLANT PATENTS.

The following plant patents were issued recently, according to Rummel, Rummel & Snow, Chicago patent lawyers:

No. 819. Apple tree, Curtis C. Aller, Yakima county, Wash. A new and distinct variety of apple tree, identical with the Yellow Newtown in foliage, growth, tree type and fruit flesh, but characterized as to novelty by its long fruit spurs, which easily separate from the fruit in picking; its freedom from susceptibility to scald or bitter pit; its habit of bearing annually, and its somewhat elongated blocky fruit having bright green color.

No. 820. Magnolia plant, Carl E. Kern, Wyoming, O. A new and distinct variety of Magnolia stellata, plant characterized particularly by its floriferousness, the coloring of its bloom. Its compact upright growth, the lateness and length of its blooming season and its healthy, vigorous growth.

No. 821. Peach tree, Jesse A. Wickerham, Yakima county, Washington. A new and distinct variety of peach tree of the Elberta type, characterized particularly by its blocky, highly colored fruit, having a distinctive, mild flavor; high sugar content, and unusually good keeping qualities.

No. 822. Rose plant, Thomas J. Andre, Doylestown, Pa. Assignor to Andre Greenhouses, Inc., Doylestown. A new and distinct variety of hybrid tea rose plant of the general Tallman type, characterized particularly by its strong and free growth habits and continuous blooming habits; its need for warmer temperatures to secure best blooming result; its larger, heavier and darker foliage for a Tallman-type rose; its strong stems; its large, long, tapering bud almost uniformly deep orange in color, and its flowers of pink and orange tones, which last unusually well without fading.

## SAN JOAQUIN MEETING.

Twenty-eight members and guests enjoyed a steak dinner before the January meeting of the San Joaquin Valley chapter of the California Association of Nurserymen. President G. C. Oliver called the meeting to order, and members and guests were introduced.

Dr. W. Sessions, of the California Spray Chemical Co., spoke on the speed of travel and on the progress of science in chemistry and insecticides. Members especially appreciated Dr. Sessions' simplified method of explaining insecticides.

After a motion by Willis Stribling, state director, it was agreed that the next meeting be held at Modesto and that the Shell Chemical Co. be asked to sponsor it.

Virgil Cripe, Sec'y.

A GRADUATE of the school of horticulture at Pennsylvania State College, Arden W. Emerick, Jr., is starting his own nursery at Linglestown, Pa.

NEW sales manager of the Portland, Ore., branch of the Chase Bag Co. is James W. Wells, who has represented the sales staff of the firm's Portland branch since it was established in 1939, with the exception of the time spent as a captain in the medical corps during the war. Mr. Wells succeeds Robert R. Koch, who has been appointed manager of the newly acquired Chase factory at Los Angeles, Calif.

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306 S. E. 12th AVENUE

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PORTLAND 14, OREGON

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FRUIT TREES

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GOOD WESTERN-GROWN  
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Fruit Tree Seedlings

Flowering Ornamental Trees

Shade Trees

Grown right and packed right.  
Combination carloads to Eastern  
distributing points will save you  
on freight.

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## FRUIT TREES

and

## GRAPEVINES

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## ROSES—TREE ROSES

Reservations made for 1949 season.  
Good varieties—excellent quality. Write  
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Pacific Northwest Rose Nursery  
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MILTON Since 1878 OREGON

Flowering, Ornamental and  
Shade TreesOregon and Washington-grown  
Fruit Tree SeedlingsAngers Quince  
Rooted Cuttings

Our Combination Carlots to  
Eastern Distributing Points assure  
minimum transportation cost.

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Wholesale Growers  
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WHOLESALE GROWERS OF  
FINE BULBS AND ROSES140th and Sandy Boulevard  
P. O. Box 5076, Portland 13, Ore.

## ROSES

Two-year-old, field-grown plants.  
Send for wholesale list.

Maywood Rose Nursery  
P. O. Box 5033, PORTLAND 13, ORE.

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25 cents per line.

Minimum order, \$2.00.

## AQUATICS

**WATER LILIES**—If you have a nearby pond or lake, they will solve the spring flower shortage. 100 lilies, 8 varieties, \$25.00; 450 lilies, \$100.00, not labeled. Write for price list. MISSOURI WATER GARDENS, Stover, Mo.

## AZALEAS

	Each	Each
4 to 6 ins.	\$0.50	\$0.45
6 to 8 ins.	.70	.65
8 to 10 ins.	.90	.85
10 to 12 ins.	1.15	1.00
Hinodegirl, brilliant red.		
4 to 6 ins.	.50	.45
6 to 8 ins.	.75	.75
8 to 10 ins.	1.00	.95
10 to 12 ins.	1.25	1.15
Burlapping 10c each additional. Packing extra. 250 at 1000 rate. Other varieties sold out.		

TANKARD NURSERIES  
Exmore, Va.

We are booking orders for superior-quality coldframe-grown Azalea liners for spring delivery at \$10.00 per 100. INDICA, 6 to 8 ins. KURUME, 4 to 6 ins. KARINA, 6 to 8 ins. Christmas Cheer Elegans Coral Bells Formosa Hexe Phoenix Hinodegirl Pride of Mobile Pink Pearl Salmon (Lawsal) Salmon Beauty Salmon Queen Snow

Special quotation on larger quantity.

COTTAGE HILL NURSERY  
T. Klyono, Mgr.  
Rt. 2, Box 67-B Mobile, Ala.

**HARDY AZALEA LINERS.**  
Kaempferi—Fedora (large deep rose-pink), Carmen (rose-pink), Louise (carmine), Mme. Butterfly (light lavender-shaded pink), Atlanta (lavender). Also, Hinodegirl (red). Lefidolia alba (white). Well branched, 2-yr. twice transplanted, 6 to 8 ins. \$55.00 per 100. Grown in special mixture producing lightweight ball and large root system. Spring delivery. No packing charge. Cash with order.

GREENSTOCK NURSERY  
(Route 112, between Station and Coram)  
Port Jefferson Station, L. I., N. Y.

**AZALEAS—NEW ROYAL DUTCH HYBRID MOLLIS.** Seedlings. Mixed rich shades of orange, pink, salmon, apricot and yellow. 3-year, heavily budded plants. Excellent landscape material. 12 to 15 ins. \$1.15 ea.; 9 to 12 ins., 90c ea.; 6 to 9 ins., 70c ea. Send for wholesale list.

**ROSES—NEWEST PATENTED AND UNPATENTED VARIETIES.** Excellent quality and well matured. C. H. BENEDICT ROSE NURSERIES Carlton, Ore.

AZALEA TRANSPLANTS.  
Hinodegirl, Snow, Hinomayo, Lefidolia alba, rosea, Pink Pearl, Coral Bells, Magnifica, Amoena. Mixed transplants from choice collections, including the above and others. Mixed Kaempferi hybrids. Ready in April, 1949. Shipping charges to be paid by buyer. Packing free. \$13.00 per 100.
BUCKINGHAM NURSERY  
Box 144 Buckingham, Pa.50,000 AZALEA TRANSPLANTS.  
Indica alba, Mary, Hinodegirl, Alice, Amoena, Hinomayo, Flame, Purple King, mixed pink kaempferi.

Very heavy, rooted. 14c each in 1000 lots; 16½c each in 100 lots. Packing and shipping extra.

DEKALB NURSERIES, Inc.  
Norristown, Pa.

## AZALEA TRANSPLANTS — Hinodegirl, Coral Bells, Pink Pearl, Snow, Lefidolia Alba, Sweet Briar, Sweetheart Supreme, Amoena, Orange Coral Bells, Hinomayo, Hino Crimson, Triomphe, Hexe, Salmon Beauty, Gardenia Supreme. Spring delivery, \$14.00 per 100, \$125.00 per 1000. JOHN WIGMORE, Norman Ave., Riverside Park, Riverside, N. J.

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## GEM EVERBEARING STRAWBERRY PLANTS

Guaranteed true to name and free of mixed varieties. Choice northern-grown, No. 1 plants. Booking orders now for spring delivery. \$10.00 per 1000, F.O.B. Prepared to fill mail orders on these and other varieties using your tags, etc. Write for details.

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**STRAWBERRY PLANTS**—Double-inspected, northern-grown Dunlap, Beaver, Blakemore, \$1.50 per 1000; 10,000 up, \$7.00 per 1000. Premium Glanc Robinson, Bolman, \$9.00 per 1000; 10,000 up, \$20.00 per 1000. Glanc Green, Streamline or Minnesota, 1166 everbearing, \$16.00 per 1000; 10,000 up, \$15.00 per 1000. These are young, healthy, fresh-dug plants, guaranteed to reach you in good growing condition. IOWA NURSERY, Farmington, Iowa.

New Willamette Raspberry Per 100 Per 1000 plants, No. 1 ..... \$4.50 \$35.00 New Washington Raspberry plants, No. 1 ..... 4.50 35.00 Rockhill Strawberry plants ..... 37.50 Chipman Canada Red Rhubarb (heavy stock) ..... 11.00 100.00 Carload lots on Rhubarb. All plants F.O.B. Grant County Market Gardens, John Day, Ore.

**Oodles of STRAWBERRY and BLUE-BERRY** plants at special price. Raspberries, Boysenberries, Dewberries, Blackberries, Gooseberries, Currants, Grapes-vines and Asparagus Roots.

Write for wholesale prices.

H. D. RICHARDSON & CO.  
Box 22 Willards, Md.

## STRAWBERRY PLANTS.

Doubly Inspected. Per 1000  
New Superfection Everbearing ..... \$30.00  
Streamline Everbearing ..... 13.00  
New Arrowhead ..... 12.50  
Dunlap ..... 500 plants at 1000 rate.

## DOLLAR NURSERY, Bloomfield, Iowa.

Thornless Boysenberries, \$4.50 per 100, \$40.00 per 1000.

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## CERTIFIED STRAWBERRY PLANTS.

Grown on new land. Excellent roots. Each bunch labeled when requested. F.O.B. here. Blakemore, Klonikite, Klondike, \$5.00 per 1000. Tenacity, Tempt, Shipper, Premier, \$6.00 per 1000. Gem, \$10.00 per 1000. Streamline, \$15.00 per 1000. DAYTON, OHIO.

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## STRAWBERRY PLANTS.

200,000 Robinson, northern-grown and irrigated. Spring-dug. Order now for spring delivery at \$10.00 per 1000. Also Streamliners. Everbearers, same quality, \$30.00 per 1000.

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Priced per 1000; 100 at 1000 rate.

Variety and Color No. 1 No. 2 No. 3

Rose Van Lime, light pink	\$20	\$17	\$12
Gold Dust, bright yellow	20	17	12
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Gardenia, creamy-white	20	17	12
Magaret Fulton, coral pink	20	17	12
Debutante, salmon-pink	20	17	12
Beacon, scarlet	20	17	12
Stoplight, ruffled red	30	25	20
Rosalie, lavender	20	17	12

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Hardy northern-grown Lily bulbs. New, rare, scarce and unusual as well as standard varieties. New wholesale list now ready. Send for your free copy.

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## DOUBLE TUBEROSES. Imported from Guatemala. Prices, postpaid. 2 to 3-in., \$2.50 per 100; 3 to 4-in., \$4.50 per 100; 4 to 5-in., \$6.50 per 100; 5 to 6-in., \$7.50 per 100.

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GLADIOLUS — Nice collection, 100 large bulbs, \$4.25; new higher-priced collection, 100 large bulbs, \$10.75. Field and storage-inspected. Prepaid. Send for list to:

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HOLLAND-GROWN CROCUS, 8 to 9 cm.  
\$1.50 per 100; blue, yellow, striped.BENTON COUNTY NURSERY CO., Inc.  
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Hand-dug and cleaned. State-inspected.

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DAHLIA ROOTS—Write today for wholesale price list on varieties that stand hot, dry weather best. PAYNE DAHLIA FARM, Route 5, Kansas City 3, Kansas.

SINGLE and DOUBLE TIGER LILIES.  
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## OUTSTANDING AND RARE VARIETIES.

## SOME VARIETIES WITH MANY

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These "Mature Specimens" are of various heights, ranging to 5½ feet—depending on the growth habits of the various varieties—whether of spreading or of upright growth habits. These are excellent Camellias for greenhouses and can be left growing in the approximately 5-gallon containers in which they are shipped, up to three tons or more. These plants are the kind that Torrey's have furnished in the past—to growers who depend on us for the Top Strains of varieties—PARENT PLANTS—that have vigorous growth, health, are pestless and of proven worth—and who know that strain is most important and counts more than the mere variety name. It will pay you to replace any doubtful strains with Torrey's Camellias of Merit.

SALE PRICE—While they last—  
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RED CAMELLIAS  
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Gypsy  
Leona Bolen  
Marion Mitchell  
Mystic Anna Rubra  
Red Finlandia  
Reticulata  
Vedrine  
Woodville Red

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Casablanca  
Debutante  
Erecta  
Euphemia  
Fuchsia  
General Patton  
Lady Hume's Blush  
Marchioness of Exeter  
Margaret Higdon  
Marie Keating  
Madam Hovey  
Queen Bessie  
Pink Dawn  
Rev. John Drayton  
Salmon Queen  
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WHITE CAMELLIAS  
Alba Plena  
Finlandia  
K. Sawada (Pat. 431)  
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Class E:  
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Hermes  
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Monarch, etc.

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Per 100 Rooted cuttings 2½-in. pot plants

Class A ..... \$10.00 \$15.00

Class B ..... 12.50 17.50

Class C ..... 17.50 22.50

Class D ..... 25.00 30.00

Class E ..... 35.00 40.00

Class F ..... 50.00 55.00

Our 2½-in. pot Camellias we are offering this year were rooted this summer and potted in late summer and fall. Most of them do not have any top growth, but have good root system.

Write for complete list of varieties and quotations on larger quantities.

COTTAGE HILL NURSERY  
T. Klyono, Mgr.

R. 2, Box 67-B Mobile, Ala.

## CAMELLIA SASANQUA.

Liners Liners Liners Liners

Rooted 8 to 12 to 18 to

Priced per 100 Cuttings 12 ins. 18 ins. 24 ins.

Double White ..... \$10.00 ..... .....

Single White ..... 7.50 ..... .....

Single Pink ..... 15.00 25.00 35.00

Wax-leaved Ligustrum ..... 4.00 ..... .....

10 per cent discount by the 1000.

## FAIRCHILD CAMELLIA GARDEN

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## Surplus Stock

can be easily and quickly turned into

Cash

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## CUTTING WOOD

HARDWOOD CUTTINGS.  
from Hardy Northern-grown Shrubs and Trees.

From our own plantings and blocks checked yearly for accuracy. Cut 7 inches. Per 1000

Aronia melanocarpa	\$ 4.00
Cydonia Japonica	6.00
Cornus paniculata	4.00
sibirica	4.00
lutea (yellow bark)	6.00
amomum	4.00
Forsythia intermedia	3.00
spectabilis	3.00
Elder, Golden	6.00
Cutleaf red-berried	4.00
canadensis	5.00
Hydrangea P.G.	5.00
Hydrangea A.G.	5.00
Pivet, Amur	3.00
Regel (true)	3.00
Ibota	3.00
Honeysuckle, morrowi	3.00
bella albida	3.00
bella rosea	3.00
korolkowii	4.00
zabelii	5.00
syringantha	5.00
maackii	4.00
Dewberry, trifida	3.00
Phlomidophus grandiflorus	3.00
Mt. Blanc	3.00
Bouquet Blanc	3.00
coronarius	3.00
lemoinei	5.00
Physocarpus opul. aureus	3.00
Physocarpus opul. nanus	3.00
Spiraea billardii	3.00
treebell	3.00
thunbergii	3.00
vanhouttei	3.00
trichocarpa	3.00
Sperry	3.00
Viburnum dentatum	4.00
Poplar, Lombardy	3.00
Willow, Niope	3.00
Golden	3.00
Pussy	3.00
Thuya pyramidalis	25.00
globosa	25.00
wareana	25.00

Packed free. Cash with order, please. Delivery in good order guaranteed.

THE SCOTCH GROVE NURSERY  
Scotch Grove, Iowa

## HARDWOOD CUTTINGS.

We are pleased to offer the following assortment of hardwood cuttings, which are ready for immediate shipment. All cut seven inches in length unless otherwise specified. Please add 25¢ per 1000 to listed price if longer cuttings are desired.

## LUGUSTRUM AMURENSE.

Amur River North Privet. Per 1000  
No. 1 ..... \$ 2.50  
No. 2 ..... 2.00

## LUGUSTRUM OVALIFOLIUM.

California Privet.  
No. 1 ..... 2.50  
No. 2 ..... 2.00

## LIGISTRUM IBOIUM.

Iboulium Privet.  
No. 1 ..... 2.50  
No. 2 ..... 2.00

## LONICERA FRAGRANTISSIMA.

Winter Honeysuckle.  
No. 1 ..... 3.00  
No. 2 ..... 2.50

## PHILADELPHUS CORONARIUS.

Sweet Mock Orange  
No. 1 ..... 3.00  
No. 2 ..... 2.50

## SPIRABA VANHOUTTEI.

No. 1 ..... 3.00  
No. 2 ..... 2.50

## WEIGELA ROSEA, deep pink.

No. 1 ..... 4.00  
No. 2 ..... 3.50

## WEIGELA AMABILIS, light pink.

No. 1 ..... 4.00  
No. 2 ..... 3.50

FOREST NURSERY CO., Inc.

Box 311 McMinnville, Tenn.

## HARDWOOD CUTTINGS.

Per 1000 Per 10,000

Lombardy Poplar	\$ 3.00	\$ 27.50
Golden Willow	4.50	40.00
California Privet	4.00	35.00
Amur River Privet	4.00	35.00

Prepaid for cash with order.

Pritchard Nurseries

Route 4 Ottawa, Kan.

40,000 ROSA MULTIFLORA JAPONICA, \$2.00 per 100, \$13.00 per 1000. 9-in. cuttings, handmade; liberal count. Wood cut early, cuttings made up early. 1/4-in. to 8 mm. caliper. The large-grown kind.

FINGER LAKES NURSERIES

Geneva, N. Y.

GENUINE AMUR RIVER NORTH PRIVATE CUTTINGS—from proven "Mother Blocks," all hand-sorted, same grade as we use, so must be correct. 5,000 for \$11.25. Cash, packing free.

ALTA VISTA NURSERIES, Davenport, Iowa

## EVERGREENS

UNROOTED Pfitzer Juniper Cuttings, 8 to 10 ins. long, not trimmed; \$10.00 per 1000, via express.

KRONE'S FLOWER SHOP

4221 Grand Ave. Fort Smith, Ark.

## LINING-OUT STOCK.

PLAY SAFE: Place your order early. Please send cash with order, or 25% cash on advance orders, except in instances where customer has established credit on our books. Please order in multiples of 25 or more.

Each per 1000

Biota aurea nana, 2 1/2-in. pots	\$ 0.22 1/2
8 to 10 ins. field-grown	.36
10 to 12 ins. field-grown	.40
Biota aurea pyra. compacta,	
1 1/2-in. pots	.11
2 1/2-in. pots	.20
Biota Bonita, 3 to 4 ins. liners	
4 to 6 ins. liners	.12
2 1/2-in. pots	.18
3 to 10 ins. field-grown	.36
10 to 12 ins. field-grown	.40
4 to 6 ins. liners	.10
2 1/2-in. pots	.18
2 1/2-in. pots	.20

Special, when they last.

Heavy field-grown plants.

3000 Biota bakeri, 18 to 24 ins. 30c.

3000 Biota bakeri, 18 to 24 ins. 36c.

Biota sibily, 2 1/2-in. pots

Biota sibily, 2 1/2-in. pots

Cedrus deodara,

    4 to 6 ins. liners

    6 to 8 ins. liners, partly branched

    2 1/2-in. pots

    2 1/2-in. pots

Cypress, Blue Lawson, 2 1/2-in. pots

Jun. glauca heterophylla, 2 1/2-in. pots

Jun. chinensis pfitzeriana compacta,

    3 to 4 ins. liners

    4 to 6 ins. liners

    6 to 8 ins. liners

    2 1/2-in. pots

Jun. com. ashfordii, 8 to 12 ins.

    field-grown

Jun. vir. keteleeri, 2 1/2-in. pots

    2 1/2-in. pots

Taxus cuspidata spreading,

    2 1/2-in. pots

    3 1/2-in. pots

Taxus intermedia, 2 1/2-in. pots

Taxus media andersonii,

    2 1/2-in. pots

    2 1/2-in. pots

Thuya occidentalis pyra.

    6 to 8 ins. field-grown

    8 to 10 ins. field-grown

Abelia grandiflora, 2 1/2-in. pots

Berberis sargentiana, 2 1/2-in. pots

Buxus Japonica and sempervirens,

    3 to 4 ins. liners

    4 to 6 ins. liners

    6 to 8 ins. liners

    2 1/2-in. pots

Ilex bullata convexa, 2 1/2-in. pots

Ilex bufordi, 2 1/2-in. pots

Ilex rotundifolia, 2 1/2-in. pots

Ilex rotundifolia, 2 1/2-in. pots

Ligustrum lucidum com.,

    4 to 6 ins. liners

    6 to 8 ins. liners

    2 1/2-in. pots

Magnolia grandiflora, 2 1/2-in. pots

Magnolia soul. nigra, 2 1/2-in. pots

Nandina domestica, 2 1/2-in. pots

Nandina domestica, 2 1/2-in. pots

Viburnum tinus, 4 to 6 ins. liners

    6 to 8 ins. liners

    8 to 10 ins. liners

Red-leaved Barberry, 6 to 8 ins. liners

Red-leaved Barberry, 2 1/2-in. pots

Kerria Jap. flora-plena, 6 to 8 ins. liners

    .06

Lonicera, Flaming Beauty,

    6 to 8 ins. liners

    2 1/2-in. pots

Pink-fig Almond, 2 1/2-in. pots

Special Notice: All prices on potted liners include shipment in new Bird Red Neponset paper pots.

T. G. OWEN & SON, Inc.

Columbus, Miss.

Per 1000 Per 10,000

PICEA PUNGENS GLAUCA.

20,000 XXX, 8 years from seeds. F.O.B.

nursery. B&B or C.S. pots, incl. packing.

Selected Blues Bed Run

Lots of Lots of Lots of Lots of Lots of

    10 100 10 100 100

12 to 15 ins. \$12.50 \$110.00 \$7.50 \$69.00

15 to 18 ins. 15.00 135.00 10.00 90.00

18 to 24 ins. 20.00 210.00 15.00 135.00

Cash with order or before shipment. Bare roots packed in wet moss, deduct 20¢ per tree. Discount 10% per cent for lots of 1000.

H. W. WEBER.

Summer St. Weston, Mass.

Per 50 Per 100 Per 500

Cuspidata ..... \$60.00 \$110.00 \$500.00

Cuspidata capitata ..... 65.00 115.00 550.00

Hatfield ..... 65.00 115.00

Packing at cost; cash, please, or 25% cash and bal. C.O.D.

RUNSER'S NURSERY

Angola, Ind.

## JUNIPERS

ALBA, silver-white Per 100

14 to 24 ins. TT, 2-yr. field-grown. \$150.00

ANDORRA 6 to 9 ins. T. 18.00

CANAERT grafts, 2 1/2-in. pots. 50.00

DUNDER grafts, 2 1/2-in. pots. 50.00

MOFFETT'S 18 to 24 ins. TT, 2-yr. field-grown. 150.00

PFITZEN 18 to 24 ins. TT, 2-yr. field-grown. 150.00

PFITZNER, GOLDEN 18 to 24 ins. TT, 2-yr. field-grown. 150.00

PFITZNER, GOLDEN 18 to 24 ins. TT, 2-yr. field-grown. 150.00

ROBINHED, new pyramidal scope 18 to 24 ins. TT, 2-yr. field-grown. 150.00

STURH'S SILVER, compact, slow-growing scope 18 to 24 ins. TT, 2-yr. field-grown. 150.00

WELCH'S grafts, 2 1/2-in. pots. 50.00

## EVERGREENS—Continued

<i>Arborvitae</i>	26	100	1000
American, 4 to 6 ins. T.	54.25	\$15.00	...
elegansima, 4 to 6 ins. T.	4.25	16.50	...
Tom Thumb, 4 to 6 ins. T.	4.25	16.50	...
Siberian, 4 to 6 ins. T.	4.25	16.50	...
Globe, 4 to 6 ins. T.	4.25	16.50	...
placata, pyramidal, 4 to 6 ins. T.	4.25	16.50	...
Irish Juniper, 4 to 6 ins. T.	4.25	16.50	...
Hetz Juniper, 4 to 6 ins. T.	5.00	18.50	\$150.00
Taxus hicksi, 4 to 6 ins. T.	4.25	16.50	150.00
Taxus baccata, 4 to 6 ins. T.	4.25	16.50	150.00
Taxus intermedia, 4 to 6 ins. T.	4.25	16.50	150.00
Taxus Jeffreysii, 4 to 6 ins. T.	4.25	16.50	...
Retinospora plumosa, 4 to 8 ins. T.	4.00	15.00	...
plumosa, 6 to 8 ins. T.	6.25	20.00	...
pisifera aurea, 4 to 6 ins. T.	4.00	15.00	...
lutescens, 4 to 6 ins. T.	4.00	15.00	...
obtusa, crispa, 4 to 6 ins. T.	4.00	16.50	...
obtusa, crispa, 6 to 8 ins. T.	5.50	20.00	...
Boxwood sempervirens, 1-yr. T.	...	12.00	...

## No C.O.D. orders.

Get our complete list: Evergreens, Shrubs and Perennials.

ESHAM'S NURSERIES

Frankford, Del.

## ROOTED CUTTINGS.

Heavily rooted stock for delivery now or later. Fine for potting now.

<i>Arborvitae</i>	100	1000
American	3.70	\$65.00
elegansima	8.00	75.00
Tom Thumb	7.00	65.00
Pyramidal	8.00	75.00
Nigra, dark green	8.00	75.00
Siberian	7.00	65.00
Globe	7.00	65.00

<i>Juniperus</i>	...	...
sabina, Savin Juniper	3.00	75.00
hibernica, Irish Juniper	3.00	75.00
depressa, plumosa, Andorra	4.00	75.00
Hetz New Blue Juniper	10.00	95.00
pitzeana	10.00	95.00
pitzeana compacta	10.00	95.00
pitzeana, Hill's Golden	10.00	95.00

<i>Taxus</i>	...	...
hicksi	8.00	75.00
cuspidata, Jap. Spreading yew	8.00	75.00
capitata, Jap. Upright yew	8.00	75.00

<i>Retinospora</i>	...	...
plumosa	7.00	65.00
Gold Dust	7.00	65.00
pisifera aurea	7.00	65.00
squarrosa veitchii	7.00	65.00

<i>Boxwood</i>	...	...
sempervirens, 1-yr. T.	5.00	45.00

No C.O.D. orders accepted.

Write for our complete list.

## SPECIAL PRICES ON LARGE ORDERS.

ESHAM'S NURSERIES

Frankford, Del.

## LINING-OUT STOCK.

<i>Acer</i> palmatum, 1-yr. S.	-\$6.00	\$100.00
<i>Ampelopanax</i> veitchii, 1-yr. S.	2.50	20.00
Jun. virg. 1-yr. S.	3.50	30.00
<i>Picea</i> excelsa, 2-yr. S.	2.50	20.00
<i>Picea</i> pungens, 2-yr. S.	2.50	30.00
<i>Pinus</i> mughus, 2-yr. S.	5.50	50.00
<i>Pinus</i> mughus, 2-yr. tr.	6.50	60.00
<i>Taxus</i> cusp. cap., 1-yr. S.	10.00	75.00
4 to 8 ins., 2-yr. tr.	7.00	60.00
9 to 9 ins., 3-yr. tr.	11.00	100.00
9 to 12 ins., 4-yr. tr.	16.00	130.00
12 to 15 ins., 5-yr. tr.	30.00	250.00

One-year pedded out in the open.

<i>Taxus</i> hicksi	...	225.00
<i>Taxus</i> cuspidata	15.00	125.00
<i>Taxus</i> hatfieldii	17.50	150.00
<i>Taxus</i> brevifolia	20.00	200.00

Grafts from pots.

<i>Acer</i> pal. atropurpureum	75.00	...
<i>Cornus</i> fl. rubra	50.00	...
<i>Pinus</i> cembra	50.00	...
<i>Tsuga</i> sargentii	50.00	...

Complete list on request.

VERKADE'S NURSERIES

Wayne, N. J.

Per 100	Per 1000	
Taxus hicksi, 2 1/2-in. pots, 6 to 8 ins.	\$20.00	\$190.00
Taxus cuspidata capitata, 2 1/2-in. pots, 6 to 8 ins.	23.00	220.00
Taxus cuspidata, 2 1/2-in. pots, 6 to 8 ins.	21.00	200.00

Viburnum rhytidophyllum, 6 to 10 ins.

Euonymus vegetus, 2 1/2-in. pots, 6 to 8 ins.

Ilex glabra, 2 1/2-in. pots, 4 to 6 ins.

Per 100 \$30.00 per 100.

Cash packing free.

LADDIE J. MATISKA

Amherst, Ohio

ILEX CRENATA CONVEXA.

Extra-heavy; 2-yr. beds, 1-yr. field rows. These are especially well grown and will make finished plants rapidly.

6 to 10 ins., \$30.00 per 100.

Cash packing free.

LADDIE J. MATISKA

Amherst, Ohio

## LINING-OUT STOCK.

Per 100	
Taxus cuspidata, 4-yr. TTT	\$35.00
Taxus cuspidata, 3-yr. TT	25.00
Taxus Moon's columnaris, 3-yr. TT	25.00
Taxus Moon's columnaris, 2-yr. TT	15.00
Taxus intermedia, 3-yr. T	17.00
Taxus intermedia, 1-yr. 2 1/4-in. pots	12.00
Taxus intermedia, 1-yr. 2 1/4-in. pots	12.00

## ROOTED CUTTINGS.

Ready May 1, 1949.

Per 1000

Per 1000	
Taxus cuspidata	65.00
Taxus cuspidata, brev.	90.00
Taxus cuspidata, brev. type	75.00
Taxus Moon's columnaris	80.00
Taxus intermedia	80.00
Taxus media upright	65.00
Taxus media upright	80.00
Ilex crenata	80.00

Samples on request.

Packing free for cash with order.

LEHIGH VALLEY NURSERIES, Inc.

1745 Linden St. Bethlehem, Pa.

JUNIPERUS VIRGINIANA—Red Cedar, Platte River type, nursery-grown.	Per 100	Per 1000
6 to 8 ins. 1-yr. seedlings... \$4.50	\$40.00	\$15.00
4 to 6 ins. 1-yr. seedlings... 3.75	35.00	
2 to 4 ins. 1-yr. seedlings... 2.75	25.00	
Prepaid for cash with order.		
Satisfaction Guaranteed.		
PRITCHARD NURSERIES		
Route 4	Ottawa, Kan.	

POTTED EVERGREENS.  
Pfitzer Junipers, 6 to 8 ins., 20c ea.; 8 to 10 ins., 25c ea.; 10 to 12 ins. and up, 35c ea. For immediate shipment. Supply limited. Wire order. \$10.00 minimum.

BRUNNEN NURSERIES  
Higginville, Mo.

HEATHER—Mediterranean hybrid, trapsl., \$7.50 per 100; twice trapsl., bushy, 4 to 8 ins., \$25.00 per 100. 50¢ minimum shipment. 500 or more, 10 per cent discount. Cash with order, packing free.

R. P. RESSEL  
Mulino, Oregon

MUGHO PINE,

18 to 24 ins. B&B..... \$2.75  
24 to 30 ins. B&B..... 3.00

These are true dwarf' mughos.

FAIRMONT NURSERY

Fairmont, Minn.

EUONYMUS RADICANS VEGETUS.  
Very hardy, 10c each.

15 to 18 ins., B.R., \$11.00 per 10; \$15.00 per 100.

18 to 24 ins., B.R., \$13.00 per 10; \$20.00 per 100.

Prices include packing.

JAN B. VANDERPLoEG  
North Muskegon, Mich.

Per 100  
Kalmia latifolia seedlings, 8 to 10 ins. \$15.00  
Rhododendron maximum, 10 to 12 ins. 20.00  
Strong, bushy plants.

WILLIAM H. JONES

Berlin Rd. Laurel Springs, N. J.

TREE BOX for hedging, 12 to 18 ins., bare root, 35c each. 50¢ minimum shipment. 500 or more, 10 per cent discount. Cash with order, packing free.

R. P. RESSEL

Mulino, Oregon

PFITZER JUNIPER LINERS.  
Healthy, well established plants. Rooted cuttings, \$10.00 per 100. Packing at cost. Prices F.O.B. nursery.

FLORIDA NURSERY & LANDSCAPE CO.

P. O. Box 97 Leesburg, Fla.

JUNIPERS.  
Pfitzer Juniper, rooted cuttings, \$12.50 per 100. Delivered by mail.

HENDRIX & GLASS

Farmersville, Tex.

26 VARIETIES OF B&B EVERGREENS.  
including Colorado Spruce, all sizes. Write for price list. THE PEQUOT NURSERIES, Branford, Minn.

EVERGREEN LINING-OUT STOCK.  
See our display ad on page 56.

Write for complete descriptive list.

MITSCH NURSERY Aurora, Ore.

BED GROWN CEDAR SEEDLINGS, 6 to 8 ins., \$35.00 per 1000. Cash, please.

EPH KLEFFER

210 E. Olive, Rte. 1 Enid, Okla.

#### FRUIT TREES

##### APPLE

55 Dbl. Red Delicious, to 5 ft.... \$0.15  
50 Yellow Delicious, 5 to 6 ft.... 17½  
60 Stayman Winesap, 5 to 6 ft.... 17½  
70 Stayman Winesap, 4 to 5 ft.... 15

##### PEACH

100 Elberta, 11/16-in. and up.... 25  
100 Elberta, 9/16 to 11/16-in.... 20  
200 Elberta, 7/16 to 9/16-in.... 17½  
230 Elberta, 5/16 to 7/16-in.... 15

##### PEAR

100 Kleffer, 11/16-in. and up.... 45  
70 Kleffer, 9/16 to 11/16-in.... 40  
50 Kleffer, 5 to 6 ft.... 35

##### PUMPKIN

50 Burbank, 7/16 to 9/16-in.... 25  
50 Burbank, 3 to 4 ft.... 17½  
220 Fredonia Grape, 2-yr. No. 1, hvy.... 10

Minimum order, 30 trees assid: tied 10 to bunch; packed free if cash with order.

Many other bargains in complete list.

BLAN NURSERIES

Station B, Box 56 Fort Smith, Ark.

##### PEACH TREES

Quality Eastern Shore of Va.-grown. June Elberta, Golden Jubilee, Early Rose, Halehaven, Belle of Georgia, Elberta, J. H. Hale, Brackett. Prices F.O.B. Exmore, packing additional.

Each Each

per 10 per 100  
5/16 to 7/16-in., 2 to 3 ft.... \$0.25 \$0.15  
7/16 to 9/16-in., 3 to 4 ft.... 30 20

9/16 to 11/16-in., 4 to 5 ft.... 40 30

Large lots quoted. Will sacrifice price on entire crop of several thousand trees.

TANKARD NURSERIES

Exmore, Va.

APPLE AND PEACH—Large assortment of varieties, various sizes and quantities. Send us your list for attractive special prices.

WAYNESBORO NURSERIES

Waynesboro, Virginia

Mahaleb seedlings	Per 1000
2/16-in. and up, No. 1.....	\$15.00
Native Plum seedlings, 4-in. and up.....	15.00
Russian Mulberry seedlings,	
6 to 12 ins.....	4.00
12 to 18 ins.....	8.00
18 to 24 ins.....	13.00
1 to 3 ft.....	16.00
3 to 4 ft.....	20.00
Caragana seedlings, 12 to 18 ins., 18 to 24 ins. and 2 to 3 ft.	Write for prices.

Boxing at cost.

ROGERS WHOLESALE NURSERY

Box 132 Winfield, Kan.

WE HAVE 10,000 DORMANT BUD PEACH TREES, true-to-name varieties, in 6 to 6-ft., 4 to 5-ft., 3 to 4-ft. and 2 to 3-ft. sizes. We cut all our buds from our commercial bearing orchards. This stock is the best that we have ever seen in our thirty years of growing trees. The trees are straight, well rooted, disease-free, and with good caliper. Still have a limited number of Pashashell Pecan trees, all grown on our superior rootstock. Write for wholesale price list.

COCKRELL'S RIVERSIDE NURSERY

Rt. 1 Goldthwaite, Texas

SURPLUS LIST.

4000 Apple trees, well branched, 4 to 5 ft. Each Per 1000

8000 Apple trees, well branched, 6 to 8 ft. .30 225.00

3000 Grapevines, heavy, 6 varieties. 15.00

Varieties of apple: Rome Beauty, Delicious, McIntosh, R. B. Davis, H. B. Davis, Stayman, Wilson Early and Yellow Transparent.

HOME NURSERY CO.

Fort Gay, W. Va.

CHERRIES.

Good height, well branched. Montmorency, Early Richmond, English Morello.

Size Each Each

1/16-in. Each per 10 per 100

9/16-in. .60 .55

11/16-in. .70 .65

13/16-in. .80 .75

BENTON COUNTY NURSERY CO.

Rogers, Ark.

PEARS

Per 100 Per 1000

Kleffler, 9/16 to 11/16-in.... \$0.00 \$50.00

Bartlett, 7/16 to 9/16-in.... 4.50 35.00

Bartlett, 5/16 to 9/16-in.... 3.50 25.00

Bartlett, 7/16 to 9/16-in.... 4.50 35.00

Clapp Favorite, 11/16 to 7/8-in.... 8.00 70.00

DRAKE'S NURSERIES

4342 Branch Rd. Flint 6, Mich.

Per 100 Per 1000

Concord Grapevines, 2-yr.-old.... \$0.00 \$50.00

Concord Cuttings.... .50 3.50

Concord Grapevines, 2-yr.-old.... 7.00 60.00

Champion Peach Trees, 2 to 3 ft.... 12.00 100.00

Peach Tree sdgs., 18 to 24 ins.... 2.00 15.00

Champion Peach Trees, 2-yr.-old.... .50 3.50

Concord Cuttings.... .50 3.50

Concord Grapevines, 2-yr.-old.... .50 3.50

Champion Peach Trees, 2-yr.-old....

## HARDY PLANTS—Continued

**NEW SUMMER-FLOWERING MUMS.**  
Very hardy—easy to grow—clean.  
Large, perfectly formed flowers from  
early August to frost.  
Excellent for cutting and corsages.

## DEAN KAY SERIES:

	Rooted	Cuttings	Pot Plants		
DEAN KAY IMP.	per 100	12	100		
Rose-link	\$ 6.00	\$ 1.75	\$ 11.00		
DEAN LADD.	Bronzy-red	8.00	2.25	13.00	
MY LADY.	Orange-yellow	8.00	2.25	13.00	
UNIV. OF MINNESOTA VARIETIES:					
AURORA.	Dragon's blood-red	8.00	2.25	13.00	
BRILLIANT.	NEW.	18.00	3.75	23.00	
BUTTERBALL.	Lemon-chrome	6.00	1.75	11.00	
CHIPPEWA.	Large aster-purple	6.00	1.75	11.00	
DEAN DEE' AHRENS.	Pure white	10.00	2.50	15.00	
GLACIER.	Extra-large white	8.00	2.25	13.00	
MAROON 'N GOLD.	Red and yellow	7.00	2.00	12.00	
REDGOLD.	Scarlet pom-type	6.00	1.75	11.00	
REDHAWK.	Bronzy-red	6.00	1.75	11.00	
SILVER PINK.	NEW.	Silver-pink	18.00	3.75	23.00
SUNRED.	Bright red	6.00	1.75	11.00	
VIOLET.	Pleasing pansy	10.00	2.50	15.00	
WATERLILY.	White	6.00	1.75	11.00	
WELCOME.	Mallow-purple	6.00	1.75	11.00	
UNIV. OF CHICAGO VARIETIES:					
BARBARA SMALL.					
Lavender-pink	6.00	1.75	11.00		
CALENDULA.	Chrome-yellow	6.00	1.75	11.00	
HARBINGER.	Bronze	6.00	1.75	11.00	
OLIVE LONGLAND.	Apricot-salmon	8.00	2.25	13.00	
PEAR ICE.	Fine white	7.00	2.00	12.00	
ROBERT BRYDON.	Garnet-red	7.00	2.00	12.00	
UNIV. OF NEW HAMPSHIRE MUMS.					
NASHUA.	Reddish-bronze pom	8.00	2.25	13.00	
SUNAPEE.	Rich gold pompon	8.00	2.25	13.00	
	Clean, strong rooted cuttings; no orders for less than 25 of one kind; ready after March 1. Pot plants, ready after April 1; no orders for less than 12 of one kind, please.				

**CORLISS BROS., Inc., NURSERIES**  
Reynard St., Gloucester, Mass.

## HARDY PHLOXES.

We have the following list of Phloxes grown from rooted cuttings planted last May. These are strong, well rooted plants and are now ready to be shipped.

Aetna  
Africa  
Charles Curtis  
D. Klemm  
E. I. Farrington  
Flash

100 of one variety, \$15.00. 50 of one variety, \$7.50. 25 of one variety, \$4.00. 10 of one variety, \$1.75.

See elsewhere in this issue for complete list of Hardy Plants.

Send for our free catalog.

**RICHARDS GARDENS**

"Old Homestead Brand"

Box 23 Plainwell, Mich.

**PERENNIALS** for Spring, well grown from field rows, nice roots. Per 100

Aquilegia coerulea	\$ 6.00
Campanula paniculata	6.00
Centaurea macrocephala	6.00
Centauria montana blue	5.00
Centauria montana blue	5.00
Delphinium Belladonna	6.00
Delphinium Bellamomum	6.00
Delphinium chinensis	6.00
Cambridge Blue	6.00
Geum Mrs. Bradshaw	8.00
Gaillardia Dazzler	6.00
Iberis sempervirens, 2-yr.	12.00
Pyrethrum roseum hybrids	6.00

Cash with order, please.

**DELSEA NURSERY** Newfield, N. J.

The DELPHINIUM of TOMORROW.

## LYONDEL GIANT HYBRIDS.

Massive Spikes—Stately—Majestic—Colorful. A new strain especially selected for its large-size flowers and wide range of beautiful colors. Doubles, semidoubles, singles. Extremely hardy.

Large field-grown plants, \$4.00 per doz. \$2.00 per 100.

Seeds from plants grown from originator's seeds, \$6.00 per  $\frac{1}{4}$  oz.; \$11.00 per  $\frac{1}{2}$  oz.; \$26.00 per oz.

**CORLISS BROS., Inc., NURSERIES**  
Reynard St., Gloucester, Mass.

## PHLOX.

Have you seen our list of strong 1-yr. Hardy Phlox? All new and standard varieties which have all been in bloom; guaranteed true to name. All our own-grown stock. Can ship at any time.

**HENRY LE POIRE**

Rt. 2 Zeeland, Mich.

OUR NEW MUM FOR '49.  
FIRST TIME OFFERED—  
SUPPLY LIMITED.

A profusion of tiny cherry-red, button-type flowers covering a sturdy, compact, 16-in. plant. Extremely colorful; excellent potted in and out. Durable flowers and foliage combine in an unusual harmonious blend, enduring long after early frost and light freezing. Price, 3 original field clumps, approximately 200 rooted runners, \$5.00.

Write for "Colorful Mums" listing.  
"Best and Latest Introductions."

**PRAIRIE SOUTHWEST FLORETUM**

R. F. D. 1, Box 103 Fall River, Kan.

We offer the following transplanted, field-grown perennials for spring shipment:

Per 100

Delphinium Belladonna \$10.00

Delphinium Bellamomum 10.00

Delphinium Wrexham 10.00

Carnation Grenadin, mixed 7.00

Coreopsis grandiflora 8.00

Dianthus alwoodii 8.00

Dianthus barbatus 6.00

NORTH POLE NURSERY Cornucopia, Wis.

GYPSOPHILA BRISTOL FAIRY.

We are now booking orders for grafted Gypsophila Bristol Fairy plants. Shipping will start as soon as the weather permits in the spring, about April 1.

Per Per Per

2 1/4-in. pots \$3.00 \$20.00 \$180.00

1-yr. field-grown 5.00 30.00

25 at the 100 rate 250 at the 100 rate.

**BLUE ACRE GARDENS**

R. R. 2, Box 162 Piqua, Ohio

HARDY PERENNIALS—Strong 2-year, field-grown. Early spring delivery Per 100

Hardy Phlox Mary Louise, pure white \$18.00

Hardy Phlox E. I. Farrington, salmon-pink 18.00

Platycodon mariesii, blue 12.00

Lychins viscaria floreplena 15.00

Heuchera, Perry's White 20.00

**PLANE VIEW NURSERY**

West Main Rd. Middletown, R. I.

**HARDY PHLOX LINERS.**

Planted out during April or May, the young plants offered in our wholesale list should bloom and make fully developed plants this year. Also, you will find other popular perennials offered in our list, which is free upon request.

**CUNNINGHAM GARDENS**, Inc.

Box 37 Waldron, Ind.

## BLEEDING HEARTS.

Per 100

Dicentra spectabilis, 3 to 5 ins. \$30.00

Dicentra spectabilis, 5 to 8 ins. 40.00

Dicentra eximia, 3 to 5 ins. 5.00

Dicentra eximia, 5 to 8 ins. and up. 20.00

**BOX 27 PORTAGE, Mich.**

## TWO HARDY PERENNIALS.

Per 100

Iris kaempferi, mixed colors \$15.00

Hemerocallis kwanso florae-plena 12.00

Blooming-size plants, J. B. certified. Free packing. Cash with order.

**BROOKFIELD GARDENS**

Route 6 Delaware, N. J.

## HARDY CHRYSANTHEMUMS.

Rooted cuttings ready now and available through the season. A good line of varieties. Clean stock, properly packed. Our wholesale price list gladly sent upon request.

**CUNNINGHAM GARDENS**, Inc.

Box 37 Waldron, Ind.

## PERENNIALS.

New and Standard Kinds.

A most modern and complete selection.

New Wholesale List now ready.

Send for your Free Copy Now.

**CARROLL GARDENS**

Westminster, Md.

## BLEEDING HEARTS.

Each

Dicentra spectabilis, 3 to 5 eyes. \$0.30

Dicentra spectabilis, 5 to 8 eyes. .40

Well developed, field-grown roots.

**CASHAR W. EVANS** Selbyville, Del.

## TO EXCHANGE.

Hardy Mum field clumps in fifty varieties for Glads, Dahlias or what have you?

**BROADLANDS NURSERY**

R. R. 7, Box 448 Terre Haute, Ind.

## America's Best Source

for Hardy Plants Is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

**HARDY PERENNIALS.** We are growers of both seeds and plants of hardy perennials in large assortment, many hundreds of kinds. Ask for Special Wholesale Price List.

REX D. PEARCE, Dept. N, Moorestown, N. J.

## HARDY CHRYSANTHEMUMS.

Our new catalog has been mailed. If you did not receive a copy, please write.

**ENGLERTH GARDENS**

4652 S. Division Ave., Grand Rapids 8, Mich.

Pansies, perennials and rock plants in wide variety. Send for catalog.

**PITZONKA'S PANSY FARM**

Bristol, Pa.

**HARDY ASTERS**—Field-grown divisions for spring delivery. Fresh dug when weather permits. Harrington's Pink and Violetta, purple, \$1.00 per 100. Cash, please.

**PAYNE DAHLIA FARM**

Kansas City 3, Kansas

## ROSEBUSHES

ON ACCOUNT OF THE SEVERE FREEZE THAT DID AN UNDETERMINED AMOUNT OF DAMAGE WE ARE NOT ACCEPTING ANY MORE ORDERS FOR THE SPRING OF 1949.

WE WISH TO TAKE THIS OPPORTUNITY TO THANK ALL OUR CUSTOMERS AND FRIENDS AND TO SAY THAT WE WILL BE DOING BUSINESS AT THE SAME OLD STAND IN THE FALL OF 1949.

## WHAT A DIFFERENCE JUST A FEW CENTS CAN MAKE!

## MARTIN'S ROSE NURSERY

P. O. BOX 155 ARP, TEXAS

## ROSEBUSHES, WHOLESALE.

Extra-nice, 2-year, field-grown, budded on Japonica Multiflora. Deliveries are now being made.

## REDS:

Ami Quinard C. K. Douglas E. G. Hill Ettoile de Hollande Grenoble Hadley McGredy's Scarlet Perle

## YELLOWS:

Golden Charm Golden Dawn Golden Ophelia Luxembourg

## WHITES:

K. A. Viktoria Konigen Luise Caledonia

## YELLOWS:

Golden Charm Golden Dawn Golden Ophelia Luxembourg

## WHITES:

Golden Charm Golden Dawn Golden Ophelia Luxembourg

## PINKS:

Briarcliff Columbia Dainty Bess Edmon McFarland Grace Noel Crowell J. L. Cook Mrs. Chas. Bell Pink Radiance Shell-pink Radiance Paul Neyron

## POLYANTHAS:

Golden Salmon Mrs. P. S. du Pont Prices per each 1 to 100. .40c 35c 30c 100 to 500. .37c 32c 27c 500 and up. .35c 30c 25c

(For sales yards, seed stores, florists' shops, rose plants individually wrapped using color picture and planting instructions for an additional 5¢ per plant. Also write for shrub.) PLACE YOUR ORDER FROM THIS AD NOW.

TERMS: Cash with order, no packing charges; or 25% cash with order, balance C.O.D.

**BRYON FLORAL GARDENS** "The Home of Fine Roses" 1701 St. Louis St., Springfield 4, Mo.

**ROSEBUSHES**—Most complete list offered in East Texas. 2-year plants, grown right, grafted right, packed right. Prices consistent with quality of stock and service rendered. Wholesale list just off the press. Ask for your copy now before stock is broken.

**ROSEMONT NURSERIES** D. L. Thompson, Manager

Tyler, Texas

**TWO-YEAR, BUDDED ROSEBUSHES.** Quality, Price, Service. Ask anyone we serve. See our display ad in this issue. Write for new wholesale list.

**ROSE LAWN NURSERIES** P. O. Box 296 Winnsboro, Texas

## ROSES.

STANDARD VARIETIES IN STORAGE  
READY FOR IMMEDIATE DELIVERY.

No. 1 Grade, 35c ea. per 10, 30c ea. per 100.

## RED:

Ami Quinard Pink: Briarcliff  
E. G. Hill Editor McFarland  
Etoile de Hollande Pink Radiance

## WHITE:

Grenoble Caledonia  
Poinsettia Red American Beauty K. A. Viktoria  
Red Grootendorst  
Red Radiance Yellow: Golden Ophelia  
Rouge Mallerin Lady Hillington  
Sensation Luxembourg

## MULTICOLOR:

Betty Uprichard Golden Ophelia  
Condesa de Sastago Yellow Talisman  
Talsman President Hoover

## CLIMBERS:

Etoile de Hollande Golden Salmon  
Pink Radiance Idee  
Red Radiance Eblouissant  
Talsman

Write for special quotation on quantities of 1000 or more.

## BAKER BROS. NURSERY

Fort Worth, Texas Phone 3-2678

OHIO'S OLDEST NURSERY OFFERS YOU  
A FINE LIST OF HYBRID TEA ROSES.

Per 100 Per 1000

No. 1 \$57.50 \$350.00

No. 1/2 22.50 300.00

Ami Quinard (red) Pink Radiance (pink)

Etoile de Hollande Caledonia (white)

(red) K. A. Viktoria (white)

Grenoble (red) Golden Salmon (yellow)

Poinsettia (red) Luxembourg (yellow)

Red Radiance (red) Roslyn (yellow)

Editor McFarland Condesa de Sastago

(pink) Margaret McGredy (multicolor)

(orange) Talisman (multicolor)

Est. 1877

CALL'S NURSERIES, Call Rd., Perry, Ohio

## ROSEBUSHES.

Clean cultivation, regular dusting, proper fertilizing and moist-packed paper-lined bales assure you of plants with vigor. Good assortment. No. 1 grade, \$22.00 per 100; No. 1/2 grade, \$16.00 per 100; No. 2 grade, \$11.00 per 100. These should be excellent for potting as they are budded on fibrous-rooted creeper multiflora understock.

## P. O. TATE NURSERY

Tyler, Texas

OREGON ROSES, 2-year, field-grown on multiflora, in all the most popular standard sellers. Now booking orders for winter and spring shipment. Also, dormant buds on manetti. Send for list.

MT. HOOD NURSERY Gresham, Ore.

## NORTHERN OHIO ROSES.

Hybrid Teas, Polyanthas and Climbers.

Write for our list.

## LESTER F. SQUARE NURSERIES

Fairport-Nursery Rd.

Painesville, Ohio

## TWO-YEAR, FIELD-GROWN ROSES.

See display ad in the Feb. 18 issue for variety list. Immediate shipment.

ROSE LAWN NURSERIES, Winnsboro, Tex.

See our display advertisement of rose bushes on page 49 in this issue.

OKLAHOMA PLANT FARMS, Inc. Springfield, Mo.

## SEEDS

## SAXIFRAGA SEEDS.

Caespitosa, 12 ins.; Hyb. Purple Robe, 8 ins.; Cotyledon, 18 ins.; Decipiens Grandifl., 12 ins. Tr. Pkt., 50c; 1/32 oz., \$1.25; 1/16 oz., \$2.25.

## SEEDS.

Acre, 25 ins.; Alzoon, 5 ins.; Selskianum, 6 ins.; Album, 6 ins.; Spurius, 6 ins.; Coecinum, 6 ins. Tr. Pkt., 50c; 1/32 oz., \$1.25; 1/16 oz., \$2.25.

## SEMPERVIVUM SEEDS.

Perennial Species Mixed, Tr. Pkt., 50c; 1/32 oz., \$1.50.

GERMANIA SEED CO. 6332 N. California Ave., Chicago 45, Ill.

## SEEDS.

Taxus Cupidata. We offer new crop direct from Japan. Let us know the quantity you require.

## AMERICAN BULB CO.

1335 W. Randolph St.

Chicago 7, Illinois

Finest-quality coniferous forest tree seeds and open cones from the Great Lakes region.

## FRANKE'S SEED CO.

Sturgeon Bay, Wis.

## SHRUBS AND TREES

DOGWOOD—Red Stem. Specimen clumps, 6 to 8 ft., many stems, \$2.25 each, \$20.00 per 10.

## WAYNESBORO NURSERIES

Waynesboro, Virginia

## LINING-OUT STOCK

Per 100 Per 1000

Althaea, dbl. red, 6 to 12 ins. \$2.50 \$20.00

Althaea, dbl. red, 12 to 18 ins. 3.50 30.00

Azaleas, Native Hardy Varieties

Calandulaceae, 6 to 12 ins. 7.50 60.00

Canescens, 6 to 12 ins. 7.50 60.00

Roseum, 6 to 12 ins. 7.50 60.00

Forsythia, fortunei, 12 to 18 ins. 2.50 20.00

Forsythia, fortunei, 12 to 18 ins. 3.50 30.00

Hydrangea arb., 12 to 18 ins. 3.50 30.00

Hypericum, prolificum, 12 to 18 ins. 3.00 25.00

Ligustrum, amurensis, 3 to 6 ins. 2.00 15.00

Ligustrum, amurensis, 6 to 12 ins. 2.50 20.00

Ligustrum, ovalif., 3 to 6 ins. 1.50 12.00

Ligustrum, ovalif., 6 to 12 ins. 2.00 15.00

Philadelphus, cor. 6 to 12 ins. 3.50 30.00

Spiraea, callosa rosea, 6 to 12 ins. 3.50 30.00

Spiraea, vanhouttei, 3 to 6 ins. 2.00 15.00

12 to 18 ins. 3.00 25.00

Weigela, floribunda, 6 to 15 ins. 8.00 ...

Weigela, floribunda, 18 to 24 ins. 10.00 ...

Weigela, rosea, 6 to 12 ins. 2.50 20.00

Weigela, rosea, 12 to 18 ins. 3.50 30.00

Cydonia, true red, 6 to 15 ins. 8.00 ...

Lonicera, halliana, 6 to 15 ins. 1.50 12.00

Lonicera, sempervirens, 6 to 15 ins. 4.00 35.00

12 to 18 ins. 4.00 35.00

Weigela, floribunda, 18 to 24 ins. 10.00 ...

Weigela, rosea, 12 to 18 ins. 3.50 30.00

Cydonia, true red, 6 to 15 ins. 8.00 ...

Rhamnus, caroliniana, 12 to 18 ins. 2.50 20.00

12 to 18 ins. 3.00 25.00

ILEX OPACA

Ilex opaca, 3 to 6 ins. 3.00 25.00

Ilex opaca, 6 to 9 ins. 5.00 40.00

Juniperus, virginiana, 6 to 12 ins. 2.50 20.00

12 to 18 ins. 4.00 35.00

Tsuga, canadensis, 3 to 6 ins. 3.00 25.00

6 to 9 ins. 4.00 35.00

9 to 12 ins. 6.00 50.00

12 to 18 ins. 9.00 75.00

5 per cent discount and free packing cash with order. 25 per cent deposit on C.O.D. orders. 30 days net to approved accounts. All first-class stock and satisfaction guaranteed.

McMINNVILLE TREE CO.

Box 125 McMinnville, Tenn.

## HEAVY LANDSCAPE GRADE NURSERY

## STOCK.

Hackberry Trees (*Celtis occidentalis*)

Straight, well branched, carefully trimmed stock. The finest hardy shade trees obtainable.

For 10 Per 100

1 1/2 to 2-in. caliper. \$21.00 \$200.00

2 1/2 to 3-in. caliper. 25.00 230.00

2 to 2 1/2-in. caliper. 31.50 290.00

2 1/2 to 3-in. caliper. 40.00 370.00

3 to 3 1/2-in. caliper. 54.00 500.00

Write for special quotations on carload lots on larger quantities.

Elm, American (*Ulmus americana*)

1 1/2 to 2 1/2-in. caliper. 12.00 110.00

1 1/2 to 2 1/2-in. caliper. 15.00 150.00

1 1/2 to 2-in. caliper. 27.50 250.00

2 to 2 1/2-in. caliper. 35.00 325.00

2 1/2 to 3-in. caliper. 45.00 400.00

Maple, Soft or Silver-leaved (*Acer saccharinum*)

1 1/2 to 1 1/2-in. caliper. 19.00 175.00

1 1/2 to 2-in. caliper. 24.00 225.00

2 to 2 1/2-in. caliper. 37.00 350.00

2 1/2 to 3-in. caliper. 45.00 425.00

3 to 3 1/2-in. caliper. 57.50 550.00

3 1/2 to 4-in. caliper. 70.00 675.00

Caragana pygmaea (Dwarf caragana shrub) Each

1 1/2 to 2-ft. spread. \$0.85

2 to 3-ft. spread. 1.00

3 to 3 1/2-ft. spread. 1.25

TOLLESON NURSERIES

W. 44th Ave. and Wadsworth Denver, Colo.

## DOUBLE-FLOWERING PEACHES.

## Red, White and Pink.

Each Each

12 to 18 ins. \$0.12 \$0.10

18 to 24 ins. .15 .12

2 to 2 ft. .20 .17

3 to 4 ft. .25 .20

4 to 5 ft. .35 .30

WHITE DOGWOOD SEEDLINGS.

Nursery-grown 100 1000

6 to 12 ins. \$2.00 \$15.00

12 to 18 ins. 2.50 20.00

FIELD-GROWN EVERGREEN LINERS.

## Irish Juniper.

Each Each

per per

12 to 18 ins. 100 1000

18 to 24 ins. 100 1000

24 to 30 ins. 100 1000

30 to 36 ins. 100 1000

36 to 42 ins. 100 1000

42 to 48 ins. 100 1000

48 to 54 ins. 100 1000

54 to 60 ins. 100 1000

60 to 66 ins. 100 1000

66 to 72 ins. 100 1000

72 to 78 ins. 100 1000

78 to 84 ins. 100 1000

84 to 90 ins. 100 1000

90 to 96 ins. 100 1000

96 to 102 ins. 100 1000

102 to 108 ins. 100 1000

108 to 114 ins. 100 1000

114 to 120 ins. 100 1000

120 to 126 ins. 100 1000

126 to 132 ins. 100 1000

132 to 138 ins. 100 1000

138 to 144 ins. 100 1000

144 to 150 ins. 100 1000

150 to 156 ins. 100 1000

156 to 162 ins. 100 1000

162 to 168 ins. 100 1000

168 to 174 ins. 100 1000

174 to 180 ins. 100 1000

180 to 186 ins. 100 1000

186 to 192 ins. 100 1000

192 to 198 ins. 100 1000

198 to 204 ins. 100 1000

204 to 210 ins. 100 1000

210 to 216 ins. 100 1000

216 to 222 ins. 100 1000

222 to 228 ins. 100 1000

228 to 234 ins. 100 1000

234 to 240 ins. 100 1000

240 to 246 ins. 100 1000

246 to 252 ins. 100 1000

252 to 258 ins. 100 1000

258 to 264 ins. 100 1000

264 to 270 ins. 100 1000

270 to 276 ins. 100 1000

276 to 282 ins. 100 1000

282 to 288 ins. 100 1000

288 to 294 ins. 100 1000

294 to 300 ins. 100 1000

300 to 306 ins. 100 1000

306 to 312 ins. 100 1000

312 to 318 ins. 100 1000

318 to 324 ins. 100 1000

324 to 330 ins. 100 1000

330 to 336 ins. 100 1000

336 to 342 ins. 100 1000

342 to 348 ins. 100 1000

348 to 354 ins. 100 1000

354 to 360 ins. 100 1000

360 to 366 ins. 100 1000

366 to 372 ins. 100 1000

372 to 378 ins. 100 1000

378 to 384 ins. 100 1000

384 to 390 ins. 100 1000

390 to 396 ins. 100 1000

396 to 402 ins. 100 1000

402 to 408 ins. 100 1000

408 to 414 ins. 100 1000

414 to 420 ins. 100 1000

420 to 426 ins. 100 1000

426 to

## SHRUBS and TREES—Continued

## SHADE TREES.

	Each
55 Tulip Trees, 7 to 8 ft., heavy, br.	\$1.00
40 Am. Ash, 6 to 8 ft., hvy. br.	1.00
45 Am. Ash, 8 to 10 ft., hvy. br.	1.50
35 Am. Ash, 10 to 12 ft., hvy. br.	2.00
385 Silver Maple, 7 to 8 ft.	.90
38 White-fl. Dogwood, 5 to 6 ft., B&B.	2.00
19 White-fl. Dogwood, 5 to 8 ft., B&B.	2.00
100 Sugar Maple, 7 to 8 ft.	1.00
45 Red Maple, 7 to 8 ft.	1.00
All of these average 1-in. and up in caliper. Free packing for cash with order.	
WHEELER'S NURSERIES	
St. Marys, W. Va.	

MIMOSA TREE—*Albizia julibrissin*.

New low prices.  
This small, rapid-growing tree with fine feathery foliage and showy, light pink flowers in early spring makes it one of our most valuable trees. Not particular as to soils. A great landscaper's tree. We offer nice healthy stock.

	Per 100 Per 1000
4 to 8 ins.	\$ 4.00 \$20.00
10 to 20 ins.	6.00 35.00
24 to 30 ins.	10.00 50.00

Send for our new list.  
RIEGEL PLANT CO.  
Experiment, Ga.

HIBISCUS (Mallow).  
Henderson's Giant Hybrid. These new hybrids can be grown anywhere. Absolutely hardy. The flowers are enormous in size, measuring 6 to 12 ins. across. The colors are gorgeous and striking. Are grand for specimen plants on lawns; also in parks. These giant Hibiscus, with their gorgeous colors, are attracting much attention throughout the nation. Mixed colors. Blooming-size stock.  
\$4.00 per doz.; \$20.00 per 100; \$150.00 per 1000.

RIEGEL PLANT CO.  
Experiment, Ga.

## TEXAS UMBRELLA TREE.

*Melia azedarach umbrauliformis*.

New low prices.  
This most beautiful and valuable tree is noted for its quick growth and shapely appearance. Needs no pruning or shaping. Always in demand. An ideal landscaper's small tree.

	Per 100 Per 1000
15 to 18 ins.	\$6.00 \$25.00
20 to 30 ins.	8.00 35.00

RIEGEL PLANT CO.  
Experiment, Ga.

## SURPLUS NURSERY MATERIAL.

Prices furnished on application.  
500 Norway Maples, 5 to 6-in. cal. (Planted 8x8 ft.)  
200 Taxus intermedia, 6 to 8 ft.  
200 Taxus nana, 4 to 8 ft.  
50 Malus in variety, 10 to 14 ft.  
50 Quercus palustris, 4 to 7-in. cal.  
20 Umbrella pine, 8 to 10 ft.  
50 Taxus capitata, 8 to 10 ft.  
150 Thuja spiralis, 6 to 10 ft.

SWAN RIVER NURSERY  
Patchogue, L. I., N. Y.

	Per 1000
Canadian hemlock transplants	
4 to 6 ins. T.	\$ 75.00
6 to 9 ins. T.	125.00
9 to 12 ins. T.	200.00
Red-leaved Barberry	
9 to 12 ins., 2-yr.	40.00
12 to 15 ins., br. 2-yr.	70.00
15 to 18 ins., br. 2-yr.	70.00
Green-leaved Barberry	25% less
Packing free for cash with order.	

TWIN CEDAR NURSERY  
Williamsburg, Mass.

## SHADE TREES.

CERCIS CANADENSIS...American Redbud	Per 1000
18 to 24 ins., bare root.	\$ 15
2 to 3 ft., bare root.	.25
3 to 4 ft., bare root.	.30
4 to 5 ft., bare root.	.75
6 to 8 ft., bare root.	1.25
4 to 6 ft. B&B.	.75
5 to 6 ft. B&B.	1.00
6 to 8 ft. B&B.	1.50

VERHALEN NURSERY CO.  
Scottsville, Texas

## 9,000 TRANSPLANTED CHINESE CHESTNUT.

	Per 100
8 to 12 ins.	\$50.00
12 to 18 ins.	60.00
18 to 24 ins.	80.00
24 to 30 ins.	80.00
30 to 36 ins.	90.00

Fruiting size, bore nuts last year, \$2.00 each, in lots of 10 trees.

HOME NURSERY CO.  
Fort Gay, W. Va.

CYTISUS SCOPARIUS (Scotch Broom). dark green straw-like limbs, yellow sweet pea flowers in spring; seedlings branched, strong root system.

	Per 100
10 to 12 ins.	\$10.00
12 to 15 ins.	15.00
15 to 18 ins.	25.00
18 to 24 ins.	35.00

Free packing in bales; cash, no C.O.D.'s.  
TRITSCHLER'S GREENHOUSES

4425 West Lawn Dr. Nashville 9, Tenn.

## ACER SACCHARUM.

We offer as fine lot as we ever saw of this splendid tree. All sizes from 3 ft. to 8 ft., straight and branched.

Could you use a car-load? They are priced to sell.Sugar Maple and Sycamore are the only items we wholesale.

## THE WING NURSERIES

Mechanicsburg, Ohio

Per 100 Per 1000

div data-bbox="423 186 677 196" data-label="Text">

5 to 4 ft. \$5.50 \$45.00

div data-bbox="423 194 677 204" data-label="Text">

2 to 4 ft. \$5.00 \$30.00

div data-bbox="423 202 677 212" data-label="Text">

1-yr. adlgs. 6 ins. 1.50

1-yr. adlgs. 9 ins. 2.50

6 to 12 ins. 1.20 10.00

CLINTON NURSERIES & GREENHOUSES

Clinton, Okla.

## BERBERIS THUNBERGII LINERS.

Per 100 Per 1000

2 yrs., br. 12 ins. \$3.00

2 yrs., 15 ins. and up. 5.00

1-yr. adlgs. 6 ins. 1.50

1-yr. adlgs. 9 ins. 2.50

DE WINTER'S NURSERY

Grandville, Mich.

## 2-YEAR BARBERRY—Not transplanted.

Per 1000

6 to 9 inches. \$20.00

9 to 12 inches. 30.00

12 to 18 inches, branched for hedging

or packaging 45.00

BURTON'S HILL TOP NURSERIES

Casstown, Ohio

## BARBERRY LINERS for spring delivery.

Thunberg (green-leaved) Per 100 Per 1000

1-yr. adlgs. 6 to 9 ins. \$1.75 \$15.00

Thun. atropurpurea (red-leaved)

2-yr. adlgs. 12 to 18 ins. 6.00 55.00

3-yr. trans. 18 to 24 ins. 25.00

NYVELDT'S NURSERY

313 Willets Ave. New London, Conn.

## LINING-OUT STOCK.

Sweet gum trees, 24 to 36-in. seedlings,

straight stems, branched trees. Dug with

plenty of good roots. \$10.00 per 100, \$90.00

per 1000.

VERHALEN NURSERY CO.

Scottsville, Texas

## PRIVET.

We have a fine lot of extra-heavy Calif.

ornamental, 2 to 4 ft. grade.

Wholesale only.

CHARLES MOMM & SONS, Inc.

1417 Stuyvesant Ave. Union, N. J.

## PYRACANTHA ROGERSI—Bright red berries.

3 to 4 ft., \$3.00 each, \$27.50 per 10; 2 to

3 ft., \$2.25 each, \$20.00 per 10, \$175.00 per 100.

WAYNESBORO NURSERIES

Waynesboro, Virginia

## VIBURNUM RHYTIDOPHYLLUM, 4 to 5 ft.

\$4.25 each, \$40.00 per 10; 5 to 6 ft.

\$5.00 each, \$47.50 per 10.

WAYNESBORO NURSERIES

Waynesboro, Virginia

## SPIREAS—Billiard and Reeves, 2 to 3 ft.

\$3.50 per 10; Vanhoutte, 2 to 3 ft., \$3.00

per 10, \$25.00 per 100.

WAYNESBORO NURSERIES

Waynesboro, Virginia

## MAGNOLIA NIGRA.

Well grown, 2 1/2-in. pot plants, for fall,

winter and spring delivery, \$25.00 per 100.

WELCH BROS. NURSERY

Semmes, Ala.

## CRATAEGUS—Crus-galli and oxyacantha.

4 to 6 ft., \$7.50 per 10; 6 to 8 ft., \$12.00 per 10.

WAYNESBORO NURSERIES

Waynesboro, Virginia

## Forms for classified ads close

Monday—two weeks before date of issue.

Don't miss an issue by sending copy late!

## VEGETABLE PLANTS

## WHOLESALE PRICE LIST, 1949.

## VEGETABLE PLANTS

Plant Variety Date Ready Per 1000

Cabbage Now. \$1.25

Collard Now. 1.25

Onion Now. 1.00

Lettuce Now. 3.00

Broccoli Now. 7.50

Cauliflower Now. 7.50

Pepper April 15. 3.50

Eggplant April 15. 3.50

Sweet Potato April 15. 3.50

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All above prices, F.O.B. Albany. Leading

varieties. Write for catalog. Large, fresh

plants. Prompt shipment.

Write or wire.

PIEDMONT PLANT CO.

Box 946 Albany, Ga.

## VEGETABLE ROOTS

## RED RHUBARB.

Chipman's Large, true-to-name divisions.

\$15.00 per 100, \$120.00 per 1000.

Cash with order, packing free.

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Sioux Falls, S. D.

## Asparagus. Mary Washington, extra-heavy.

one-year plants, \$9.00 per 1000, 10,000 for

\$20.00. White Bohemian Horse-radish crowns,

\$4.50 per 100. Broad-leaved sage, strong one-

year plants, \$6.00 per 100. Prepaid for cash

with order. PRITCHARD NURSERIES.

Route 4, Ottawa, Kan.

## MacDonald

## Large, true-to-name divisions.

\$15.00 per 100, \$120.00 per 1000.

Cash with order, packing free.

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Sioux Falls, S. D.

## Large, true-to-name divisions.

\$15.00 per 100, \$120.00 per 1000.

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\$15.00 per 100, \$120.00 per 1000.

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## FROST COVERS.

WAR SURPLUS—CAMOUFLAGE NETTING. Just the thing for a new partial shade house. Hundreds now in use for sun and frost protection. They are being used over seeds, cuttings and young plant houses. Make an attractive covering for salesyards. Also for all other uses in the nursery and florists' industry where partial shade and plant protection are necessary. Will last for years. Fully treated against mildew and rot. Most economical to use. These new nets are 26 feet wide and 15 feet long for only \$14.55 each F.O.B. our shipping point. Supply limited.

WILSON BROTHERS  
Newsome 6, Texas

## CANADIAN BALED PEAT.

Bales packed tight with long-lasting veneer on six sides, 12 or more bushels of quality peat moss to each bale. Suited to outside storage. Approximate weight, 100 lbs.

\$4.25 per bale, or \$3.95 per bale for 10 or more.

## VERHALEN NURSERY CO.

1114 South Beckley Dallas 8, Texas Scottsville, Texas  
Phone: Winfield 9876 Phone: Marshall 4876

NURSERY NAILS.  
Regular Type Needle-point Nursery Nails.  
\$15.00 per kg.

Shipping weight, 110 pounds.

## VERHALEN NURSERY CO.

1114 S. Beckley Dallas, Texas Scottsville, Tex.  
YOUR PROFITS GROW IN VERHALEN PLANTS

SUPERIOR QUALITY MOSS PEAT.  
pH 4.5, highly organic, fine fibered moss peat. Air-dried to ideal moisture content for best results. Shipped in chemically treated bags for longer service.

1 to 25 bags, F.O.B. plant... \$1.25 \$1.65  
25 to 50 bags, F.O.B. plant... 1.15 1.55  
Write for low bulk prices.

JUNIUS PEAT CO.

60 Pearl St. Lyons, N. Y.

## NOW IS THE TIME.

Build new low-cost shade houses, or replace your old worn-out lath or slat houses with BRAND-NEW LOW-COST Heavy Steel Wire Camouflage Netting. Write for descriptive folders and prices to cover any amount of this material you may need from one roll to carlot shipments.

H. M. OWEN or E. A. FARLEY  
P. O. Box 946 3333 Gentry Blvd.  
Columbus, Miss. New Orleans, La.

## CAMOUFLAGE WIRE.

Excellent protection against frost and sun. Used over beds, shade houses, greenhouses, sales grounds, etc., with satisfaction by hundreds of growers. Rolls, 6 ft. wide by 75 ft. long. Consists of steel wool on pliable, welded wire fencing. Only \$6.00 per roll, cash with order. Large lots quoted.

## TANKARD NURSERIES

Exmore, Va.

## SPRAYER—Shade tree size.

Hardie, 300-gal. tank, 4-cyl., 25 H.P. Continental motor, radiator-cooled, 35 gals. per min., 600 to 800 lbs. pressure. Mounted on skids, including park gun and 200 ft. of hose. Excellent condition, used very little. Price \$1,050.00.

LEHIGH VALLEY NURSERIES, Inc.  
1745 Linden St. Bethlehem, Pa.

## RELIANCE AZALEA and CAMELLIA SPECIAL FOOD.

100-lb. bags	... \$4.00 each
50-lb. bags	... 2.60 each
25-lb. bags (4 per case)	... 5.50 case
10-lb. bags (6 per case)	... 4.25 case
5-lb. bags (12 per case)	... 4.65 case

## VERHALEN NURSERY CO.

1114 S. Beckley Dallas 8, Texas

## HEATSUM CABLE.

Roots more cuttings in less time; protects outside sash and water pipes; melts snow in gutters, on walks and driveways. Units available 60 ft. to 1,000 ft. long. Present your problems to our engineers.

L. N. ROBERSON CO.  
1539 East 103rd St. Seattle 55, Wash.

## MINNESOTA WHITE CEDAR FLATS

12x16x2 $\frac{1}{4}$	... \$18.25 per 100
14x20x2 $\frac{1}{4}$	... 22.00 per 100
14x20x3 $\frac{1}{4}$	... 25.00 per 100

Other sizes quoted on request. Also crating and other lumber, Aspen and Pine. F.O.B. Cook, Minn. Attach check.

H. C. HILL & SONS, Cook, Minn.

GIBRALTAR Frost Covers pay for themselves. Economical, long-lasting, ideal for windbreaks. 6 ft. wide; 50 ft. \$13.75; 100 ft. \$26.00; 150 ft. \$39.00. NEW AMSTERDAM IMPORT, 122 Chambers St., New York 7, N.Y.

PRINTING—Letterheads, Billheads, State-ments, Cards, Envelopes, Tags, Blotters, Folders. Samples sent.

J. GARLAND HILL, Dept. A, Seaford, Del.

## PEAT MOSS.

Highest-quality acid sphagnum peat moss weighing about 3 lbs. per loose bushel. 120-lb. hydraulic-compressed bales, \$3.25 each; 10 or more bales, \$3.00 each. Large burlap half-bale bags, \$1.60 each; 10 or more, \$1.50 each. COLBY PIONEER PEAT CO., Inc. Hanlon town, Iowa

## SPHAGNUM MOSS.

Clean, long-fibered, well pressed burlapped bales of standard size, \$1.35 per bale, F.O.B. City Point. Cash with order. Write for prices on large lots. Immediate shipment.

THOMAS RESHEL  
City Point, Wis.

SEED STORE FIXTURES  
Bins, Cabinets.

WALKER BILT WOODWORK, Inc.  
Penn Yan, N. Y.

## WANTED

WANTED TO BUY.  
Lining-out stock.

100 Magnolia	glauca
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R. D. 2 & 3 SUSQUEHANNA GARDENS  
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## WANTED

For Mail-order and Sales-lot Trade.  
Trees, plants, shrubbery, vines; also tractors, garden implements and farm supplies.

ZEIGER'S  
1225 Carnahan Rd. Pittsburgh 16, Pa.

## WANTED

Evergreen liners.  
MOUNTAINSIDE NURSERY  
P. O. Box 442 Anniston, Ala.

## WANTED AT ONCE.

Stock of evergreens, roses, flowering shrubs and fruit trees. Send list or sample.

LOU'S MARKET Clyde, Tex.

WANTED—Pfitzer Junipers, B&B and lining-out field-grown transplants.

THE EVERGREEN NURSERIES, Lowell, Ind.

## OREGON MEETING.

[Continued from page 11.]

fits and obligations of a free economy.

After luncheon, the nurserymen saw a color film, "Gift of Green," which showed the organic chemistry of plants. Sound and projection equipment for the movie was furnished and operated by Wayne Melott, Carlton Nursery Co., Forest Grove.

Knight Pearcy, Salem, spoke on the need for legislation to regulate the sale of commercial fertilizers. His resolution that the Oregon Association of Nurserymen favor such legislation was passed by members and referred to the legislative committee for further study.

Leading a panel discussion, "An Hour with Your State College on Plant Pests and Diseases," R. Ralph Clark, horticultural specialist, Oregon State College, described the research work being done by the college in entomology and pathology. He also pointed out the need for preventing the air from becoming polluted with excessive amounts of smog and obnoxious gases. In addition, he emphasized the necessity of keeping Oregon's soil in a high state of fertility to maintain a production of nursery stock which has reached a figure between \$13,000,000 and \$14,000,000.

Al Roberts, department of horti-

**Low-Priced ROTARY TILLER**

Unsurpassed  
for Tilling  
and Cultivating

The Mulsifier Soil Tiller! Makes it easy to work 1 to 20 acres common cropland. Pulverizes the soil as fine as if it were plowed, disked and harrowed. Spreads fertilizer as it tills. Ideal for cultivating. Has adequate power for all workable soils. Travels at speeds up to 1/2 miles per hour. Nothing to do but guide it. Compact—can be carried in trunk of car. Completely equipped—no extras to buy. Sells at a fraction of the price of a tractor. Send postcard for circular.

## MULSIFIER CORPORATION

7156 Hamilton Detroit 2, Mich.

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**Free CIRCULAR**

## Mulsifier\* ROTARY SOIL TILLER

IDEAL GARDEN GADGETS  
and Handy Items

Midget Fence

Lawn Guards

Hose Holders

Peony Supporters

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*Send For Folders Today.*  
LANSING SPECIALTIES MFG. CO.  
731 N. Hayford St., LANSING, MICH.

## LOWER SALES COSTS

Want a dozen new salesmen? No expense accounts. U. S. mailmen do the job. After 30 years of selling landscape jobs and stock to homeowners by mail, I have written 24 Bulletins on exactly how to send out direct mail.

Find out what leading nurserymen say about value of these Bulletins.

Write now for complete description and cost.

## CARLSON BUSINESS SERVICE

23 Palmer St. Waltham 54, Mass.

## CUT YOUR GROWING COSTS

Rejuvenate Your Soil and Grow Big with

## VITALOAM

Trade-Mark

The choice of America's finest growers from coast to coast.

—100 per cent organic—

Use no manure—no commercial fertilizer

Apply Vitaloam once—at planting time.

If no distributor—we will ship direct.

SOIL RESEARCH LABORATORIES, Inc.

LANCASTER, OHIO



**SELF-PROPELLED NURSERY SPRAYER**  
Clearances up to 78 inches.  
Sprays Four Rows at One Time.  
Cultivator can be attached.  
For Information Write:  
**VICTOR FRIDAY, COLOMA, MICH.**



**BARKER MFG. CO.,** Box 38, DAVID CITY, NEB

## EDCO 15

15% Parathion  
Wettable Powder  
Economical, easy-to-use. Effective against wider range of insects than any other chemical now in use.

**\$1.75** per lb.  
in 4-lb. cans, F.O.B.

**EDCO CORPORATION**  
Elkton, Md.

### PLATE BOOKS

for Nursery Salesmen  
Fruits—Shrubs—Evergreens  
Send for our Catalog

**B. F. CONIGISKY**  
202 Main St. PEORIA 2, ILL.

### ORCHARD HEATERS

400 Heaters, good as new.

	Each
1 to 25.....	\$2.50
25 to 50.....	2.25
50 to 100.....	1.95

**LAKE CHARLES NURSERY**  
BOX 146 LAKE CHARLES, LA.

culture, Oregon State College, continued the panel by speaking on problems of defoliation of roses. Describing different defoliation methods, he said that copper sulphate seemed to be the best of several chemicals used. Mr. Roberts, who illustrated his talk with charts and pictures, told of results of the use of Nacconol and advised caution in the use of it and other defoliation agents. He also recommended that they be used as late in the fall as possible in order to let plants mature properly.

Speaking on entomology, R. G. Rosenstiel, of the college's department of entomology, told of research in this field and warned nurserymen to be careful when using modern concentrates and insecticides. He also discussed the rhododendron bud moth and its spread in the past few years. Dr. John Milbraith, department of pathology, spoke on virus diseases of stone fruits and stated that nurserymen benefited as much as orchardists from his department's research work. He believes that completely virus-free fruit stock in a nursery does not exist in general nursery listings. Dr. Milbraith recommended that cherry varieties A-114 and A-10 be used in propagating and showed color films of infected and recommended strains. In conclusion, he stated that a completely virus-free Lambert cherry may never be found.

The panel discussion ended with an invitation to association members from the college staff to attend a session at Corvallis in June. The invitation was accepted.

Representing the newly formed state agricultural research and advisory council, James Doty, Doty & Doerner, Inc., Portland, reported that the council had met November 19 and had drawn up a constitution and bylaws. He also stated that the council's main interest so far had been the promotion of the passage of legislative appropriations or a budget for the state agricultural experiment station. This appropriation is of vital interest to nurserymen as well as agricultural groups, said Mr. Doty.

Ray Hartman, San Jose, representing California nurserymen, invited members of the Oregon association to attend the convention of the American Association of Nurserymen in July at San Francisco.

The meeting was adjourned after the showing of "A Spring Season at Cloverset," a color film illustrating methods used in potting and selling nursery stock, presented through the courtesy of Cloverset Flower Farm, Kansas City, Mo.

### HELP WANTED

Experienced grower to take charge of nursery production. Housing available. Lifetime position. State salary desired.

Address:

**HANKINSON NURSERY CO., INC.**  
P. O. Box 247 Hankinson, N. Dak.

**FOR SALE**—Florida nursery, old established, profitable business and property on west coast, lots of good land; fine lath houses and greenhouses, 2 dwellings, service buildings; large stock and equipment. Offered at bargain price. Also, fine 35-acre nursery at Ft. Pierce, Fla., the east coast of Fla., many fine fruit and nursery properties for sale on Long Island and in many other counties of New York state, New Jersey and Connecticut. For current list write: HORTICULTURAL REALTY CO., 135-18 Northern Blvd., Flushing, N. Y.

**FOR SALE**—Small wholesale nursery and local landscape business on beautiful Cross Lake. Two miles from Pine City. Plenty of peat, leaf mold, black dirt and phosphate on the place, plenty of water to irrigate if needed. About \$1,500.00 worth of materials, bulk and shrubs. About 25 acres of timber and 25 acres cultivated. Ford-Ferguson tractor with full line of hydraulic machinery. Will sell all or part of the land. Reason for selling, my peat business has grown so heavy I cannot handle both at my age. For full information, address: **WHITE-MILLWOOD GARDENS**, Pine City, Minn.

**HELP WANTED**—Married man with general nursery and sales experience for retail stand. Must have pleasing personality and be willing to assist on nursery operations. House available. Excellent opportunity for right man. State age and experience in first letter. **BULK'S NURSERIES, INC.**, Babylon, L. I., N. Y.

**SITUATION WANTED**—Young man, age 26, wants employment as motor driver or nurseryman, experience 3 years as motor driver and 9 years as nurseryman. Reply: S. J. VERMEUL, Zuidkade 83, Boskoop, Holland.

**HELP WANTED**—Landscape foreman, must be able to execute plans and should be able to plan small jobs. Salary and bonus. **BURTON'S HILL TOP NURSERIES**, Box 57, Casstown, Ohio.

**HELP WANTED**—Propagator who has had full experience in growing nursery stock, including budding, grafting and raising seedlings. Write us for an interview. **DEKALB NURSERIES, INC.**, Norristown, Pa.

**FOR SALE**—Modern evergreen seed extractor and cone killer. A real money-maker with unlimited money-making opportunities. Only a small investment required. Write: **FRANKE'S SEED CO.**, Sturgeon Bay, Wis.

### TAPE RULES



Cloth Tape for use where Steel Tape accuracy is not required.

50 ft.....	ea., 75c; doz., \$8.00
25 ft.....	ea., 60c; doz., 6.00

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Incorporated  
**RYE, NEW YORK**



**BRANDT'S** All-Metal Markers & Tags  
for all marking and recording. Non rusting. Non corrosive. Any data applied PERMANENTLY without expensive tools or machines. **WRITE FOR FOLDERS.**

Midwest Metal Specialties, 543 S. LaSalle St., Aurora, Ill.

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Help and Situation Wanted and For Sale advertisements.

**Display: \$3.00** per inch, each insertion.

**Liners: 25¢** line; minimum order **\$2.00**.

### WANTED

#### BUSINESS PARTNER

Good conscientious young man with small capital. Business is too big for one man. Small nursery and general landscape contract business, established for 18 years in western New York state. Need man with knowledge of plant materials and ability to handle men. Not over \$4,000.00 capital needed. State all particulars in first letter. Address Box 600, care of American Nurseryman.

#### PARTNER WANTED

Wanted as partner in established landscape nurseries near Baltimore. Right party may acquire the nurseries and equipment, if desired. Partner to be coequal in sales and landscape design so as to divide responsibilities. Unusual opportunity offered. Give outline of experience, available investment, etc. Address box 605, care of American Nurseryman.

#### HELP WANTED

Landscape salesman used to making \$5,000.00 per year or better. Must be capable of meeting clients, selling landscape jobs and making sales at nursery sales grounds. He must be able to draw plans and carry out jobs to satisfactory completion. State experience and include a picture or plan, or send some recent work. This location is in northern Ohio. Address Box 601, care of American Nurseryman.

#### HELP WANTED

Experienced landscape foreman who is capable of taking complete charge of the only nursery in a midwestern city of 90,000. Small living quarters. Wonderful opportunities. Write Box 610, care of American Nurseryman.

#### SITUATION WANTED

A recent college graduate, age 24, with training in landscaping, propagation and arboriculture, desires work in an established nursery. Has had experience in a wholesale nursery and in doing lawn service.

LOWELL E. ADEE  
1291 Wayne Ave., Topeka, Kans.

#### SITUATION WANTED

College graduate in horticulture, 1947, desires chance to work in horticultural field with greater future. Presently working in small nursery in large city for prominent N. C. firm. Experience in sales, small landscape designing, administration, propagation. Age 28, married, stable, sober. Leaving state no objection. Excellent references. Available March 1. Address Box 608, care of American Nurseryman.

#### SITUATION WANTED

Graduate horticulturist desires position with nursery firm in midwest. Familiar with most nursery operations, propagation, planting, pruning, spraying and landscape design, 28 years old, wife and two children. Give full particulars in first letter, if possible. Address Box 606, care of American Nurseryman.

#### HELP WANTED

Landscape architect who can sell and supervise landscape planting, and also propagator experienced in cuttings, grafts and seeds under glass and in fields.

THE HIGHLAND LANDSCAPE CO.  
Rt. 14, Box 538  
Indianapolis, Ind.

### FOR SALE

Well established nursery and landscape business near South Bend, Ind., excellent location. 24 acres, including beautifully landscaped 4-acre sales grounds, remainder planted in stock. Buildings include 7-room and 3-room modern houses, 2-story 18x26-ft. garage, 26x30-ft. tool house, 40x27-ft. shop building. Also trucks, and all equipment and tools. Net income from business, \$16,000.00 annually.

For further details write:  
C. RICHARD JERNBERG  
332 So. Michigan Ave.

Chicago 4, Ill.

#### HELP WANTED

Experienced landscape foreman, one who can design, estimate, sell and supervise complete landscape operations. Must be honest, sober, thorough and willing to work. Permanent position.

Also have opening for an experienced arborist, one who can take complete charge of our tree spraying, weed control spraying and pruning.

State age, experience, references and wages expected in first letter.

D. PALOMBO SONS,  
Landscape Contractors  
1600 Washington Rd., Pittsburgh 16, Pa.  
Locust 0430

### FOR SALE

Well known landscape nursery in central Michigan, 50 acres specimen stock, 20 acres woodland containing many valuable seedlings. Excellent home, all modern. Complete equipment. Two greenhouses, storage pits, work shop, tool shed, tools, basement, barn, office and drafting room, 2 wells and pumps; in fact, all equipment necessary. Orders for spring, 1949, are booked. Located on U. S. highway and fine side road. Will sacrifice for \$48,500.00; \$15,000.00 cash, balance on time. Exceptional opportunity for young person. Owner in poor health and is unable to carry on. Address Box 607, care of American Nurseryman.

#### HELP WANTED

Nursery and landscape superintendent. Must be thoroughly experienced and have high school or better education. Should have ability to handle a crew of men. Selling, designing and other experience in the nursery business desirable. Salary commensurate with ability. Must furnish references as to character and ability which shall be investigated.

COLONIAL FARMS, Inc.  
2016 Sledd Street  
Richmond, Va.

### FOR SALE

Successful, fast-growing, well established rose nursery (bulbs and some chrysanthemums). Handle up to 300,000 rosebushes per year at good profit. Bulb crop will gross \$50,000.00 this summer alone. 200 acres of land, including oil royalty and small oil payments. Several permanent buildings, including residence, 5,000 ft. first-class glass. Good wholesale and retail mail-order business. Permanent connection with big syndicate stores. Latest up-to-date equipment. Operation much larger than present owner desires. Will sell reasonably.

For further information send name and bank reference to:

J. HAROLD STRINGER,  
Tyler State Bank & Trust Co.  
Tyler, Texas

#### HELP WANTED

Middle-aged man familiar with farm machinery and one who has had some nursery experience. Must be able to handle horses. Small apartment on premises. Good salary to one who can qualify. Address Box 609, care of American Nurseryman.

### FOR SALE

Landscape and retail nursery business, well located 12 miles out of Chicago on main highway. Six acres of nursery stock, large new house, machinery. You can do a big business. Address Box 611, care of American Nurseryman.

#### HELP WANTED

Experienced man capable of managing our landscape work, from planning with customers to supervising actual execution. In local area. Salary range, \$3,000.00 to \$3,600.00. Contact us.

FOUR WINDS FARM NURSERY, Inc.  
4190 Main St., Buffalo 21, N. Y.  
Established 1925.

### FOR SALE

Over twenty acres of general varieties of nursery stock located in the heart of the rich Piedmont area. Plenty of sales available locally and in northern markets. Wonderful opportunity for man with landscape experience. Contact J. E. EIDSON, Eidson Construction Co., Mocksville, N. C.

#### FOR SALE

On account of death of owner, heirs will sacrifice old established nursery. Over 10,000 trees and shrubs, 50 acres of land. Complete set of modern buildings and equipment. Irrigation system. 30 minutes from Twin Cities on paved highway.

Write: J. P. KOELSCH REALTY, Realtors  
2321 Hennepin, Minneapolis 5, Minn.

### FOR SALE

Vineland, N. J., nursery, farm, greenhouse property, plenty of fine land, 22,000 sq. ft. greenhouse and nice home; well located and in good condition; excellent opportunity for large nursery in the garden spot of N. J.

For details write:  
HORTICULTURAL REALTY CO.  
135-18 Northern Blvd., Flushing, N. Y.

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1949 Professional Course  
Contains 50 Printed Lessons

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VETERAN  NONVETERAN

## PLANT NOTES.

[Continued from page 22.]

The latter is the true lavender, while the other is known as the spike lavender, although there is not enough difference between the two to interest gardeners. There is a vast difference in the hardiness of lavender from the different parts of its range, and about the only way to find the hardy ones is to grow plants from seeds as they become available, letting the winters eliminate the weak ones. It has been the experience here that the dwarf forms are safest in this section because they generally are protected by a covering of snow in winter.

Of the latter, *L. stoechas* seems to be the only one that has made much headway in America. It is a pretty gray-leaved shrub, growing up to two feet in height, with spikes terminating in a tuft of purple bracts. Another species, *L. dentata*, has the same characteristic, a tuft of lavender bracts at the top of the spike. In the latter case, the flowers are a rather pale violet in plants I have grown from seeds, instead of the deep purple mentioned in some of the literature, and the leaves are dentate, as the specific name indicates. Neither is hardy here in northern Michigan, though they do well in pots.

Two other species, *L. lanata* and *L. multifida*, have appeared in American lists, but they are seldom seen. I have never grown either and cannot say anything about them from experience. The first is said to grow a foot tall and to be especially attractive because of its densely woolly leaves. I should expect it to be rather finicky on heavy soil even if it were hardy. The other, which I have seen a few times as a pot plant, is a pretty plant, with finely cut, woolly leaves and violet-colored flowers in dense spikes. I suspect, though, that the last three will appeal mostly to herb growers, leaving the first two of most value as garden plants and, of course, to nurserymen in general.

As might be expected in a plant so long in gardens, there are many forms of ordinary lavender, whether it be *L. spica* or *L. vera*. There seems to have been no distinction made between the two by botanists until the early nineteenth century, when de Candolle created the latter species. There are tall forms, known generally as *L. spica gigantea*, which grow up to four feet or more in height under good culture, and there are dwarf ones of no more than an 8-inch stature, the one known as *L. nana atropurpurea*, or French lavender, being one example. Many

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named varieties, including Bowles and the Munstead Dwarfs, are mentioned in literature, and there are also several white-flowered forms. Of the latter, one growing no more than four inches tall would be an intriguing plant and a useful one, if it were hardy. Unfortunately, all the whites that have been in this garden have been short-lived, even when grown under glass.

If you have calls for lavender or if you have it on your schedule for future operations, it will pay you to watch European lists for seeds of the kinds not offered in this country. They could not all come true to description, of course, but you would likely obtain some interesting breaks, some of which would be worth growing from cuttings. And cuttings of year-old wood, taken with a heel in early spring, root with ease.

## Manfreda.

A reader, who has lately become interested in hardy amaryllids, asks about manfreda. He being located in Massachusetts, I doubt if any manfreda would do him much good, but the little information I have is gladly given.

Manfredas, which are closely related to agave and, in fact, were at one time classed with the latter, are,

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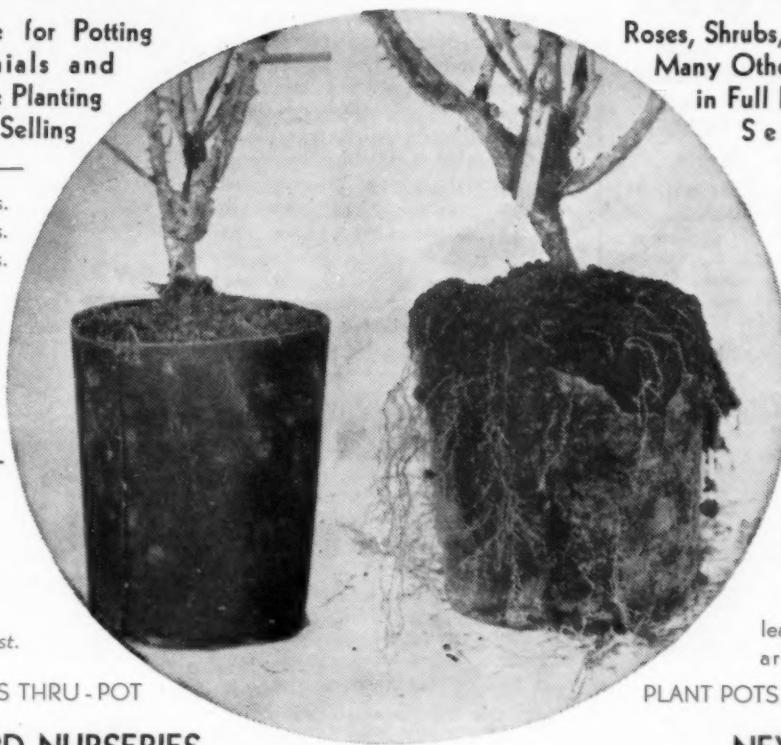
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with one exception, Manfreda virginica (*Agave virginica*), tropical and subtropical plants. The one named is a native of southeastern United States, from Maryland to Florida, but has been quite hardy here. We are apparently too far north, however, for it just manages to live, growing so slowly that its yearly addition to size is scarcely noticeable. No doubt it would make normal growth south of the Chicago isotherm, especially if one had his start with plants from Maryland or Virginia.

It has rather large, lance-oblanceolate leaves and a flower scape to a height of three or four feet. I cannot say much about the flowers, because they rarely have been produced here. They are a rather unshowy, greenish-white, mostly opening at night, and are pleasantly fragrant. It apparently wants full sun and does best, I think, in a light soil.

A later trial in this garden was *M. variegata*, which is usually known as *A. variegata* to the collectors of southern Texas and New Mexico, where it is native. Where it is hardy, which it certainly is not in northern Michigan, its white variegated leaves to a foot or more in length and, according to report, its 4-foot scapes, red in color, of pink to red flowers, should make it acceptable to gardeners. This is the plant known in Texas as the Texas tuberose and is recommended by the authorities there as a worthy substitute for the tuberose.

I have seen it stated that the manfredas can be propagated by division of the bulbous roots. Of that I cannot say from experience, but they do come readily from seeds, though they grow rather slowly.

#### Polygonatum Multiflorum.

I was intrigued several years ago when a friend of this column told me *Polygonatum multiflorum* was one of his best sellers. I neglected to follow up the matter until recently, when he wrote that this European Solomon's-seal continued to be one of his good sellers and that he sells out of it every year.

It is an attractive plant, to be sure, each 2-foot stem being wreathed in pendant, fragrant white bells during May. It is especially good for one's shady spots and may also be used in sun if given a soil that does not dry out rapidly. And it is easily grown from fall-sown seeds.

#### A Thought on the Moss Phlox.

Last summer I visited a nursery where ten years before there had been row after row of *Phlox subulata* in a number of kinds, and I looked in vain for a single plant. Inquiry

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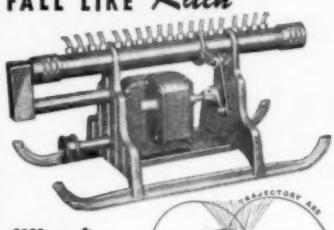
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developed the fact that this nurseryman's customers "were thoroughly fed up with moss phloxes overrunning their gardens." Just in case other nurserymen have found these conditions confronting them, I am giving here a brief note on the subject.

No doubt more gardeners, especially those with small planting space, would use *P. subulata* if its varieties with restrained growth habits were used. Nothing is more disconcerting to the rock gardener than to watch one of the rampers bury everything in its path, but a slow-growing variety of this phlox, like *Leuchstern*, *Rhonsdorf Beauty*, *Schneewittchen* (Snow Sprite) or *Vivid*, planted in the same spot, will live amicably for years with the most delicate alpine.

Most of these slow growers are also slow propagators, division, which is generally used for the multiplication of the ordinary moss phlox, being quite impossible. Rapid increase may be had, however, by inserting cuttings, rubbed off with a heel, in light sandy soil in an outdoor frame in early September. Kept moist and partly shaded for two or three weeks, most of them will have enough roots to keep them anchored during the freezing and thawing of winter and be ready for lining out in the spring.

The leaves on this variety are flat and small, measuring one-half to seven-eighths of an inch in length and from one-fourth to one-half inch in width. Color is maintained summer and winter, but no berries are produced.

Equal hardiness with the microphylla forms of the species is claimed for the new holly. In the region of Philadelphia it is growing in an open field. It should be useful for ordinary landscape planting from as far north and east as Boston, through northern Ohio and west to central Missouri, that is, to the middle of zone 5. It appears to be tolerant of wet and dry or neutral and acid soils and of a moderate degree of shade.

THE Greenwich Nursery Co., 217 Greenwich street, New York, N. Y., filed a voluntary petition in bankruptcy January 18, listing liabilities of \$58,145 and assets of \$19,719. The members of the firm are Jack Vale and Edward Saxe.

M. J. SANDUL, Marine City, Mich., has changed the name of his business to Riverside Nursery & Landscape Service. He has had one acre of general nursery stock and will plant another acre this spring, when he will also open a sales lot.

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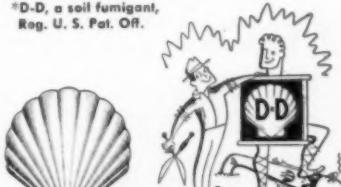
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## OHIO ARBORISTS' COURSE.

[Continued from page 18.]

old stand-bys such as American elm, silver maple, plane tree and pin oak. Before they can make a success of street tree management, arborists must learn all over again how to select and plant, said Mr. Scanlon.

There has been a strong tendency toward the use of native species to the exclusion of all others. No tree on earth is native to the conditions that exist in the average street planting area, the speaker claimed. There is not the necessary assortment of forms, shapes, leaf texture, soil and atmospheric tolerance in the few native species. Uniformity of planting, which cannot be attained by the use of seedling trees, is necessary. The day of big trees on city streets is gone, except where generous space factors prevail. We should strive for common sense on our streets of the future, said Mr. Scanlon.

The two features of maintenance operations which should receive the most attention are the maintenance of newly planted trees and the size of the maintenance crews. Of these, the maintenance of newly planted trees is the more important. Mr. Scanlon keeps a duplicate record of all operations performed in the maintenance of the trees and reports on

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the general condition of the trees in the planting. Thus, the age class and uniformity of the planting are maintained.

The speaker stressed the need for efficiency of operation. Except in cases where several removals are involved, he keeps his crews down to four men, with the regular maintenance crew consisting of only two men with a jeep and trailer.

Without a doubt, he stated, the past mistakes will serve well in that soon the situation will become so acute that the problem will have to be faced and solved. Then, if cities have the proper leadership to install a sound program, shade tree management will come into its own as a vital force in city planning and civic culture.

#### Future of Ohio State.

At the dinner which followed Mr. Scanlon's talk, Chester Hutchison, associate dean of the college of agriculture, Ohio State University, was guest of honor and spoke on "Ohio State University in the Future." He mentioned the fact that this year the university is celebrating its diamond jubilee. Enrollments have increased tremendously, especially in the post-war years. Of course, facilities have become overtaxed, but much of this



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100 to 300 tests can be made for each of the following soil chemicals:

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Phosphorus	Calcium
Potassium	Aluminum
Acidity	Nitrates
Magnesium	Sulfates
Iron	Carbonates
Manganese	Chlorides

plus 4 reserve tests  
Packed in a strong metal chest; equally adaptable to field or office use. The apparatus will last indefinitely. Solution replacements may be obtained as needed. Only \$30.00 complete.



#### THE JUNIOR SIMPLEX SOIL TEST OUTFIT

All materials and solutions necessary to make 100 to 300 tests for the following plant growth factors for \$20.00.

Nitrates	Reserve Potassium
Phosphorus	Potassium
Reserve Phosphorus	Acidity



#### FARM SIMPLEX SOIL TEST OUTFIT

This outfit is just as efficient but its use is more limited than the complete outfit. 100 tests for the following four elements:

Nitrates	Potassium
Phosphorus	Acidity
Sells for \$12.00.	

Full directions and color charts accompany each set.

All prices F.O.B. Cleveland.

## THE EDWARDS LABORATORY

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will be overcome by the recently initiated \$18,500,000 building program. The proposed program for the college of agriculture calls for a series of buildings to be constructed on the university farm west of the Olen-tangy river.

The greatest emphasis in the curriculum of the college of agriculture has been placed on the production of farm products, because this is the backbone of the agricultural industry. Graduates have shown themselves to be well prepared for the part they are called upon to play in the national economy, Mr. Hutchinson said. New knowledge, new techniques and new fields of applications constantly press for inclusion in the curriculum. "A horticultural curriculum that is static is dead," he concluded.

D. E. E.

[To be continued.]

## TRUCKERS INTERCHANGE LOADED FREIGHT CARS.

To meet the growing demand for coast-to-coast and long-haul freight shipments, a uniform contract was adopted at the recent convention of the American Trucking Association whereby the big commercial trucking firms have adopted a railroad technique of switching freight cars from one line to another.

The interchange practice began during the war when conflicts in state laws on truck size and load limits were eased in order to speed up shipment of goods, and since the war more uniform size and weight codes have been adopted by the various states, so that interstate trucking has been on the increase. The ability of the truckers to provide flexible transportation at rates which, up to five tons, are below the railroads' has also been responsible for the increase of long-haul trucking.

THE Skyline Nursery, Bucktail, St. Marys, Pa., was started recently by William J. Krug & Son on thirty-five acres, five of which have been planted to a full line of evergreens, azaleas and rhododendrons.

RECOVERING at home from recent major operations, Harold Welch, vice-president of Mount Arbor Nurseries, Shenandoah, Ia., has enjoyed the many letters received from friends throughout the trade. Although he is now able to sit up about three hours each day, insufficient strength prevents him from dictating replies acknowledging these welcome letters and expressing his thanks as he would like.

## We Recommend Our OPEN MESH COTTON NURSERY SQUARES

which have rendered complete satisfaction for many years to the LEADING NURSERYMEN throughout the UNITED STATES and CANADA.

Why not try them?

## FOUR-PLY, MULTI-WALL KRAFT PAPER FLOUR BAGS.

Once used, selected, in perfect condition.  
EXCELLENT FOR TOPSOIL.

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For most species of borers on deciduous trees. Apply as protective measure. Used by leading tree companies.

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A scientific wax emulsion. Can be applied with spray equipment. Retards and reduces loss of moisture. Permits transplanting out of season.

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Some of our customers are now using liquid Tre-Tex with power sprayer for protection against deer, sheep, goats, etc. We recommend that you mix Tre-Tex twice as rich—one pound to a quart of cheap-grade alcohol—for mice, flathead tree-borers and winterkill. TRE-TEX is absolutely harmless to any leaf life. Lasts two years if made double-rich. One man can varnish 100 trees in 1 hour with a paint brush. Read our folder with fifty convincing testimonials. No losses in our Orchard-view trees since 1942.

**CONTEST FOR NURSERYMEN ONLY.** We have decided to extend the closing time for our nurserymen's contest to May 15, to include the entire spring planting season. The conditions of this contest are very simple—\$50.00 prize to the nursery sending in the largest amount in orders from Jan. 1, 1949, to May 15, 1949, \$15.00 to the second highest, and \$10.00 to the third highest. In the case of tie, the prize will be divided.

Remember, you get 33 1/3 per cent profit on all retail sales at your nursery, and 10 per cent cash every week for wholesale orders you mail in to us, which you sell.

Why not send at least \$10.00 today for your first agent's consignment, which is 10 lbs. of powder or 10 quarts of liquid? We also have 10-oz. packages of powder. You get 16 of these for \$10.00. Also 20 pints instead of 10 quarts, if you prefer. If you will get your first order to us by March 1, we will ship your entire order by express, prepaid—just the first order, however. We will also include your counter display carton, containing one quart, one pint, one pound, and one 10-oz. package, free, with your order. This is worth exactly \$4.75 to you.

Order today, without further delay.

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Manufacturers of Tre-Tex

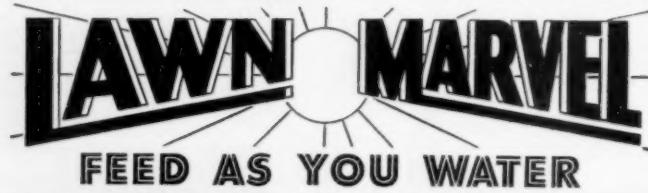
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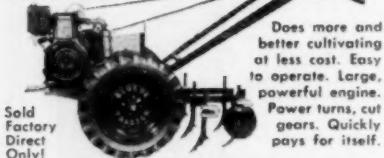
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Price \$3.00 per dozen.

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vertise the whole industry. (5) The fine cooperation with the state college should continue.

### A. A. N. Program.

Richard P. White, executive secretary, A. A. N., in his report on conditions at Washington, D. C., stressed the importance of keeping a close watch on activities in the various governmental agencies. As an example, he cited a change in the quarantine regulation which was being proposed. Although this affects nurserymen vitally, little notice of it was given. Without someone on the job, it would have been missed entirely. A proposal to extend social security to agricultural and domestic workers will come up in this session of Congress. A similar proposal was made in 1943, and at that time a survey of the industry was made, and sentiment was found to be unfavorable. Another survey has been taken, and now the position of the A. A. N. is clearly to support the extension of the social security benefits. The rates will go up at least by January 1, 1950, and perhaps sooner, Mr. White believes.

A serious problem in the transportation field is imminent, said Mr. White. Unless something can be done to stop constant requests by carriers for increased rates, there is every likelihood that all public carriers will be nationalized. The Interstate Commerce Commission has given warning to increase efficiency and stop rate increases.

Plans are under way to hold the seventy-fifth anniversary meeting of the A. A. N. at Washington, D. C., in 1950. The Maryland and Virginia chapters are in charge of plans.

At the conclusion of his talk, Mr. White was unanimously elected to honorary membership in the Pennsylvania Nurserymen's Association.

Next Charles M. Boardman reviewed the work of the public relations counsel during the past year. Monthly releases have been sent to magazines and radio stations, mostly on a national basis. Now it seems desirable to supplement these with regional releases, and it is proposed to divide the country into seven areas: (1) Northeastern and lake states, (2) southeastern and Gulf states, (3) Ohio river valley states, (4) north plain states, (5) southwestern states, (6) southern and northern California and (7) Rocky mountain states. Releases will be written for each area. There have been thirty-seven releases this year to magazines and newspapers, but it is hoped these can be increased, especially in rural areas and local weekly papers. Each mem-

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TWINES and CORDAGE  
SISAL, COTTON, JUTE  
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ber was urged by Mr. Boardman to send in the name of his own local publication.

### Dr. Chadwick on Soils.

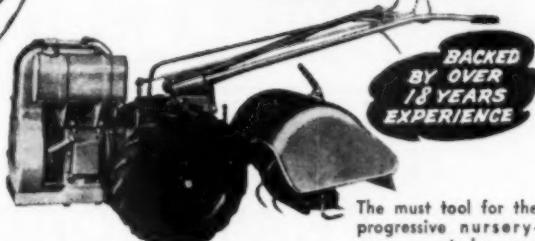
The final speaker of the afternoon session was Dr. L. C. Chadwick, department of horticulture, Ohio State University, Columbus, O., whose topic was "Soils." He said that soil is the main item with which the nurseryman has to work, since he is in business to grow quality stock. Three main problems of the soil are drainage, fertility and structure. Structure is the most difficult to maintain, and to understand it one must examine the soil. An ideal soil will be made up of solid particles and spaces in between in about equal proportions. The solid particles should be about three to four per cent organic matter. The open spaces should be about half small spaces for capillary action of water and half larger ones for aeration.

Dr. Chadwick said the soil may be changed in several ways; soil aeration may be improved by improving the aggregation, by adding lime or organic matter or by freezing and thawing. It is much easier to destroy than to build up, especially by handling and packing when wet. The best way to improve soil is to add organic matter; the other ways are not stable. The type of organic matter influences the amount gained. Farm manure is about the same as cover crops and if applied heavily, might maintain the organic matter. Green manure cover crops, such as soybeans, serve only as a shot in the arm. A cover crop of sod is best.

From experiments conducted with farm crops, Dr. Chadwick pointed out some possibilities with nursery material. A farm crop rotation of corn, oats, sod the first year, sod the second year can be classified in the depleting or adding of organic material by giving certain figures to each crop as follows: Corn, minus 2; oats,



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Complete with pipes, hose and nozzles, \$29.95. Air gauge, \$2.60 extra. 12-gallon capacity. One-wheel truck if specified.

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E-Z-GARDS are made of heavy-gauge enamel wire, welded into sturdy and durable units, 21 inches high and 20 inches long. When set up the height can be varied from

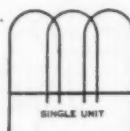
12 to 15 inches. They interlock, forming a continuous fence, or can be used as single units.

E-Z-GARDS are finished in 4 pleasing colors—Lawn-green, Sunshine-yellow, Tangerine and Hibiscus-red. Their artistic design and gay colors will protect and beautify any spot where they are used.

Dealers' price is 34 cents per unit in dozen lots, F.O.B. factory. Packed and shipped in multiples of 12.

Free display base sent on request with orders for 6 dozen or more. Send check or money order with your order.

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New Material, Soft, Easy to Tie; Saves Time, Labor and Twine.
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Finely Granulated  
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minus 1; sod the first year, plus  $2\frac{1}{2}$ , and sod the second year, plus  $1\frac{1}{2}$ . Thus the plus and minus factors balance each other, and one could expect to maintain organic matter under such a rotation. However, under ordinary nursery practice, with a deciduous nursery crop on the soil for three years, with clean cultivation followed with a green manure crop and a winter cover crop, one might expect the depletion and addition to be as follows: Each year under nursery crop a minus 2 or a total of minus 6 is obtained; green manure crop, plus 1, and winter cover, plus  $\frac{1}{2}$ . This leaves a balance of minus  $4\frac{1}{2}$ , which means a steady depletion of organic material under usual nursery soil management. In order to bring about a balance, it is necessary to add more sod crops to the rotation. By adding oats and grass one year the plus value of 1.2 is obtained; this followed by a year in sod gives a plus value of 3.2 and a second year of sod a plus value of 1.2. The plus values now total 5.6, almost balancing the minus factor of 6. If fall cover is used while growing the nursery crop, slight additional plus factors result, which will practically bring the depletion and addition into balance.

When it comes to growing a crop of evergreens, where the plants may be in the soil for five or six years, the situation is much more acute. In digging the plants with a ball, a considerable percentage of the topsoil will be removed. At the present time there is no rotation which will guarantee a balance. Additional years under sod might be effective. A combination of grass and legume was suggested by Dr. Chadwick.

Dr. Chadwick recommended the use of companion crops. In limited tests in shade tree blocks, which had been clean cultivated two years before the sod was planted, somewhat greater growth was recorded for those under sod. Also the soil analysis of the sod blocks gave higher organic content. The plants were easier to dig, both in the spring and the fall. So far tests with taxus indicate somewhat better growth response under clean cultivation blocks. This is undoubtedly due to the small sizes of the taxus in the beginning when the sod crop tends to choke the growth of the evergreens. Later results may indicate more favorable responses under sod.

An informal banquet was held at 6:30 p. m. Tuesday.

**Plant Materials for Efficiency.**

The first speaker of the Wednesday morning session was Prof. R. P. Meahl, department of horticulture,

Pennsylvania State College, who spoke on "Plant Materials for an Efficient Nursery." He defined efficient nursery material as that which can be expected to bring the largest possible profit over a long period of time and suggested that plants which were attractive over the longest period and gave the best customer satisfaction were the ones which most nearly filled the requirements. It is also efficient for a nurseryman to grow or handle plants that can be grouped or combined in attractive plantings for particular effects in developing properties. A few combinations were suggested. *Carpinus betulus*, European hornbeam, with *taxus* at the base is good for tall buildings or where height is desired in the garden. Others for the same type of situation are *Photinia villosa*, Oriental photinia, with *Rhododendron carolinianum*, Carolina rhododendron, and *Betula pendula gracilis*, cutleaf weeping birch, with *Cornus florida*, flowering dogwood. Combinations for somewhat lower plantings might be *Euonymus alatus*, winged euonymus, with *Taxus cuspidata nana*, dwarf Japanese yew, or *Ilex verticillata*, common winterberry, with *Rhododendron carolinianum*. All these combinations have a lighter texture of foliage, twigs and color in the background and at the top, with the heavier, darker forms at the base.

Professor Meahl recommended the use of plants that are attractive in foliage throughout the season with good fall effects, showy flowers which are followed by long-lasting and attractive fruits. He illustrated his talk with Kodachrome slides of some of the plants which have these qualifications. Those shown and discussed were *Acer ginnala*, Amur maple; *Amelanchier canadensis*, shadblow serviceberry; *Betula pendula gracilis*, cutleaf weeping birch; *Cercidiphyllum japonicum*, katsura tree; *Cornus florida*, flowering dogwood; *Cornus mas*, cornelian cherry dogwood; *Euonymus alatus*, winged euonymus; *Euonymus vegetus*, bigleaf wintercreeper euonymus; *Ilex verticillata*, common winterberry; *Ligustrum amurense*, Amur River North privet; *Ligustrum obtusifolium*, regelianum, Regel privet, and *Malus atrosanguinea*, carmine crab apple. Others described were *Malus sargentii*, Sargent crab apple; *Pyracantha coccinea*, scarlet fire thorn; *Viburnum carlesii*, Korean spice viburnum; *Viburnum dilatatum*, linden viburnum; *Viburnum prunifolium*, black haw viburnum, and *Viburnum tomentosum*, doublefile viburnum.

In the business session which followed Professor Meahl's talk, various



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For chlorosis due to  
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Does not contain  
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4-oz. jar ..... \$1.25  
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**INSECT**

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committee reports were heard. The selection of the time and place of the summer meeting was left up to the executive committee. After much discussion, an employee insurance plan was adopted. The basic benefits were voted as follows: \$1,000 for general labor, \$2,000 for foremen and \$5,000 for executives. This covers straight life insurance only.

A short meeting of the Pennsylvania chapter of the A. A. N. was held to elect the delegates to the 1949 A. A. N. convention at San Francisco. It was decided to continue the present arrangement of selecting one delegate from the Western Pennsylvania Nurserymen's Association and the rest from the Pennsylvania Nurserymen's Association. The delegates elected were William M. Long and Charles M. Boardman, with one to be selected by the western group. Alternates chosen were Eugene Muller, Raymond Hively, Russell Harmon and Daniel Erb.

### CATALOGS RECEIVED.

Brown Bros. Co., Rochester, N. Y.—Wholesale price list of fruit and ornamental trees, shrubs, vines and perennials; 4-page folder,  $5\frac{1}{2}$  x 10 inches.

Brouwer's Nurseries, New London, Conn.—Wholesale price list of lining-out stock; 2 pages,  $8\frac{1}{2}$  x 14 inches.

Chase Nursery Co., Chase, Ala.—Wholesale surplus list of roses, shrubs, vines, evergreens, lining-out stock and supplies; 8 pages,  $7\frac{3}{4}$  x 9 inches.

Maloney Bros. Nursery Co., Inc., Danville, N. Y.—Wholesale surplus and want list; 4-page folder,  $4\frac{9}{16}$  x 11 inches.

Thomas B. Meehan Co., Inc., Dresher, Pa.—Wholesale price list of ornamental trees, shrubs and evergreens; 4-page folder,  $5\frac{1}{2}$  x 13 inches.

Milton Nursery Co., Milton, Ore.—Wholesale list of shade and ornamental trees and fruit tree seedlings; 6-page folder,  $4\frac{9}{16}$  x 9 inches.

Wayside Gardens Co., Mentor, O.—Wholesale catalog of roses, hardy perennials, flowering shrubs, small fruits, bulbs, seeds and supplies; illustrated, partly in color; 52 pages and cover,  $8\frac{1}{2}$  x 11 inches.

Isaac Langley Williams, Exeter, N. H.—Wholesale trade list of lilies, orchids, ferns, aquatic and bog plants, wild flowers and collected deciduous trees, evergreens and shrubs; 16 pages and cover, 6 x 9 inches.

Willis Nursery Co., Ottawa, Kan.—Wholesale price list of fruit and shade trees, roses, perennials, shrubs, evergreens, vines, bulbs and small fruits with description; 24 pages and cover, 6 x 9 inches.

Champion Nurseries, Perry, O.—Retail catalog of roses, vines, shrubs, fruit and shade trees and seeds; illustrated; 32 pages and cover, 6 x 9 inches.

Keith Plant Nursery, Sawyer, Mich.—Retail catalog of berry plants, roses and supplies; illustrated, partly in color; 24 pages,  $8\frac{1}{4}$  x 10  $\frac{1}{2}$  inches.

Swedberg Nursery, Battle Lake, Minn.—Retail catalog of shade trees, evergreens, shrubs, roses, perennials, small fruits, bulbs and seeds; 24 pages, 7 x 8  $\frac{1}{2}$  inches.

## A. F. S. "Easi-Off" WOOD PLANT BANDS



Saves time and labor. Bands are removed without cutting; therefore the dirt ball and roots are not disturbed . . .

CAT.	Size in inches	Weight per 1000	Per 1000
No. M-310	1 $\frac{1}{4}$ x 1 $\frac{3}{4}$ x 2 $\frac{1}{2}$	12 lbs.	\$4.05
No. M-320	2 x 2 x 2 $\frac{1}{2}$	15 lbs.	4.50
No. M-340	2 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x 3	20 lbs.	4.90
No. M-350	3 x 3 x 3	21 lbs.	5.30
No. M-360	3 x 3 x 4	32 lbs.	5.90
No. M-391	4 x 4 x 4	40 lbs.	6.95

Packed 1000 to the carton.

We do not break cartons.

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